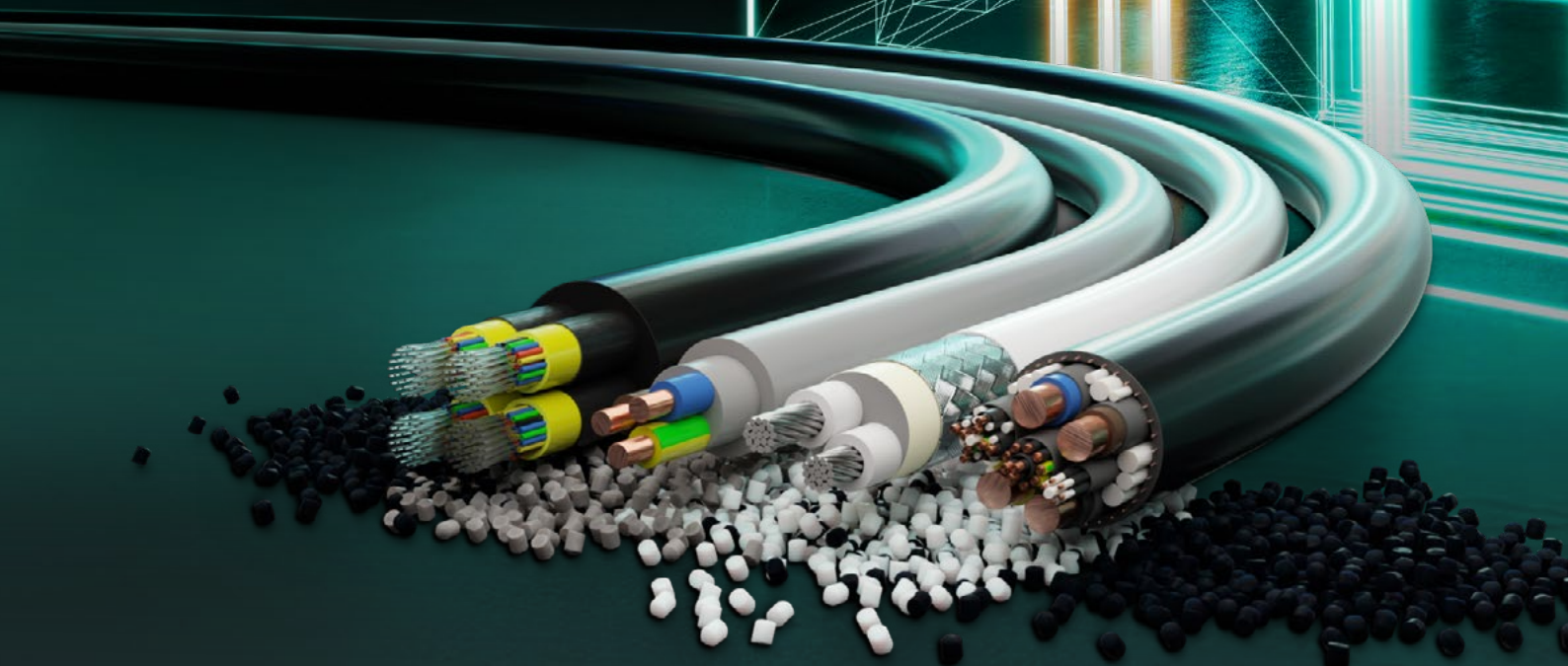


mełos

# HIGH PERFORMANCE CABLE COMPOUNDS

Insulation, sheathing  
and bedding compounds



# RELIABLE COMPOUNDS FOR DEMANDING APPLICATIONS



**MARINE**



**ROLLING STOCK**



**ROBOTICS**

With our insulation, sheathing and bedding compounds we cover a wide range of international standards. In addition, our „Customer Solutions“ Product Group is responsible for the customized development of compounds for the plastics processing industry. With our modern production facilities, we can manufacture compounds to customer specifications.



Melos is a leading manufacturer in the field of highest quality low smoke, HFFR, thermoplastic and irradiation cross-linkable compounds including halogenated specialties. We design formulations for a wide range of applications. Our up-to-date production lines enable us to produce standard and customized compounds for our customers all over the world.

**AUTOMOTIVE****INSTALLATION****GREEN ENERGY****TELECOMMUNICATION**

# FIRST-CLASS CABLE COMPOUNDS



MECOLINE INSULATION COMPOUNDS

FM BEDDING COMPOUNDS

MECOLINE SHEATHING COMPOUNDS

## MECOLINE COMPOUND CODE EXPLANATION

|          |                                                            |
|----------|------------------------------------------------------------|
| Mecoline | Brand name for insulation and sheathing compounds by Melos |
| I / S    | Insulation / Sheathing                                     |
| TP / RDX | Thermoplastic / Radiation cross-linkable                   |
| F        | Flame retardant                                            |
| 1/2 or 5 | 1/2 = halogen-free or 5 = halogenated                      |
| 0 to 3   | 0/1 = thermoplastic to 2/3 = radiation cross-linkable      |
| 01 to 99 | Internal serial number                                     |

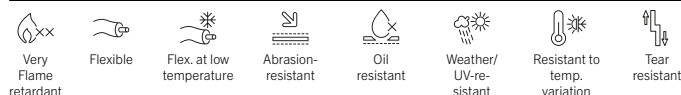
### TP - COMMON BASIC FEATURES



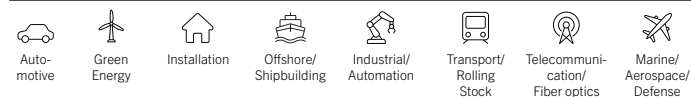
### RDX - COMMON BASIC FEATURES



### SPECIAL FEATURES



### APPLICATIONS



Information in this publication is, to the best of our knowledge, true and accurate. However, since conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee. Users are recommended to establish for themselves the suitability of our products in their cable construction. The above values should not be used for quality control purposes.



# HFFR-LS

Thermoplastic, **halogen-free**  
insulation and sheathing compounds

| MELOS CODE                       | Operating temperature [°C] | Shore hardness | Tensile strength [N/mm²] | Elongation at break [%] | LOI [%] | Density [g/cm³] | Viscosity MFI [g/10 min] Mooney [MU] | Oil resistance level | Special features | Standards                                                                                                                         | Applications |
|----------------------------------|----------------------------|----------------|--------------------------|-------------------------|---------|-----------------|--------------------------------------|----------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>MECOLINE S<br/>TP 1005 F</b>  | -15<br>to<br>90            | 57 D           | 10.0                     | 180                     | 37      | 1.52            | 150°C/<br>21.6 kg<br>3.5             | ★★★★                 |                  | + HM2, HM4, HM5, TM7<br>+ BS 7655 LTS1 / LTS2 / LTS3 / LTS4<br>+ SHF1<br>+ CEI 20-11 M1, NF C 32-323                              |              |
| <b>MECOLINE S<br/>TP 1006 F</b>  | -25<br>to<br>90            | 50 D           | 10.3                     | 179                     | 45      | 1.56            | 160°C/<br>21.6 kg<br>5.0             | ★★                   |                  | + HM2, HM4, HM5, TM7<br>+ BS 6724, BS 7655 LTS2<br>+ SHF1<br>+ CEI 20-11 M1, NF C 32-323                                          |              |
| <b>MECOLINE S<br/>TP 1007 F</b>  | -25<br>to<br>90            | 54 D           | 11.2                     | 180                     | 34      | 1.52            | 150°C/<br>21.6 kg<br>11.1            | ★★                   |                  | + HM2, HM4                                                                                                                        |              |
| <b>MECOLINE S<br/>TP 1021 F</b>  | -30<br>to<br>80            | 48 D           | 10.8                     | 226                     | 42      | 1.48            | 150°C/<br>21.6 kg<br>9.0             | ★                    |                  | + HM2, HM5, TM7<br>+ BS 7655 LTS1 / LTS3<br>+ SHF1                                                                                |              |
| <b>MECOLINE S<br/>TP 1030 F</b>  | -70<br>to<br>105           | 87 A           | 11.2                     | 305                     | 38      | 1.63            | (1+4)<br>160°C<br>62                 | ★★★★                 |                  | + HM2, HM4, HM5, TM7<br>+ SHF1<br>+ UL 1277 Oil Res I & II<br>+ ST8                                                               |              |
| <b>MECOLINE IS<br/>TP 1032 F</b> | -30<br>to<br>90            | 52 D           | 10.5                     | 196                     | 38      | 1.49            | 150°C/<br>21.6 kg<br>8.2             | ★                    |                  | + HM2, HM4, HM5, TM7, Ti6, Ti7<br>+ BS 7655 LTS1 / LTS2 / LTS3 / LTS4<br>+ SHF1<br>+ CEI 20-11 M1                                 |              |
| <b>MECOLINE IS<br/>TP 1033 F</b> | -25<br>to<br>90            | 53 D           | 13.0                     | 185                     | 39      | 1.51            | 190°C/<br>21.6 kg<br>12.8            | ★                    |                  | + HM2, HM4, HM5<br>+ SHF1                                                                                                         |              |
| <b>MECOLINE S<br/>TP 1034 F</b>  | -75<br>to<br>105           | 88 A           | 15.0                     | 200                     | 40      | 1.60            | (1+4)<br>160°C<br>71                 | ★★★★                 |                  | + HM2, HM4, HM5, TM7<br>+ SHF1<br>+ UL 1277 Oil Res I & II<br>+ ST8                                                               |              |
| <b>MECOLINE IS<br/>TP 1035 F</b> | -30<br>to<br>90            | 50 D           | 12.5                     | 190                     | 45      | 1.47            | 150°C/<br>21.6 kg<br>9.9             | ★                    |                  | + HM2, HM4, HM5, Ti6, Ti7, TM7<br>+ BS 6724, BS 7655 LTS2<br>+ SHF1                                                               |              |
| <b>MECOLINE S<br/>TP 1039 F</b>  | -70<br>to<br>105           | 34 D           | 11.8                     | 219                     | 44      | 1.63            | 210°C/<br>21.6 kg<br>3.6             | ★★★★                 |                  | + HM2, HM4, HM5, TM7<br>+ SHF1<br>+ UL 1277 Oil Res I & II<br>+ ST8                                                               |              |
| <b>MECOLINE IS<br/>TP 1041 F</b> | -40<br>to<br>80            | 47 D           | 11.0                     | 220                     | 39      | 1.47            | 150°C/<br>21.6 kg<br>8.5             | ★                    |                  | + HM2, HM5, Ti6, TM7<br>+ BS 7655 LTS1 / LTS2<br>+ SHF1                                                                           |              |
| <b>MECOLINE IS<br/>TP 1043 F</b> | -40<br>to<br>80            | 50 D           | 12.4                     | 230                     | 45      | 1.46            | 150°C/<br>21.6 kg<br>5.7             | ★                    |                  | + HM2, HM5, TM7, Ti6, Ti7<br>+ BS 7655 LTS1 / LTS3<br>+ SHF1                                                                      |              |
| <b>MECOLINE S<br/>TP 1045 F</b>  | -40<br>to<br>90            | 48 D           | 13.1                     | 229                     | 38      | 1.50            | 150°C/<br>21.6 kg<br>3.8             | ★                    |                  | + BS 7655 section 6.1 LTS1 / LTS2 /<br>LTS3 / LTS4<br>+ VDE 0207 part 24 HM2, HM4<br>+ IEC 60092-360 SHF1<br>+ DIN EN 50363-8 TM7 |              |



## Radiation cross-linkable, **halogen-free** insulation and sheathing compounds

| MELOS CODE                         | Operating temperature [°C] | Shore hardness | Tensile strength [N/mm²] -crosslinked- | Elongation at break [%] -crosslinked- | LOI [%] | Density [g/cm³] | Viscosity MFI [g/10 min] Mooney [MU] | Oil resistance level | Special features | Standards                                                                                                            | Application |
|------------------------------------|----------------------------|----------------|----------------------------------------|---------------------------------------|---------|-----------------|--------------------------------------|----------------------|------------------|----------------------------------------------------------------------------------------------------------------------|-------------|
| <b>MECOLINE S<br/>RDX 1203 F</b>   | -25<br>to<br>105           | 50 D           | 14.3                                   | 173                                   | 34      | 1.48            | 150°C/<br>21.6 kg<br>8.0             | ★★★★                 |                  | + EN 50264 EM101-104<br>+ SHF2<br>+ NEK 606                                                                          |             |
| <b>MECOLINE S<br/>RDX 1212 F</b>   | -50<br>to<br>125           | 87 A           | 11.1                                   | 272                                   | 29      | 1.51            | 165°C/<br>21.6 kg<br>19.3            | ★★★★                 |                  | + SHF2<br>+ NEK 606                                                                                                  |             |
| <b>MECOLINE S<br/>RDX 1215 F</b>   | -60<br>to<br>125           | 83 A           | 13.0                                   | 206                                   | 42      | 1.60            | 175°C/<br>21.6 kg<br>15.0            | ★★★★                 |                  | + EN 50264 EM101-104<br>+ SHF2<br>+ NEK 606                                                                          |             |
| <b>MECOLINE I<br/>RDX 1229 F-1</b> | -50<br>to<br>125           | 53 D           | 14.9                                   | 315                                   | 25      | 1.37            | 150°C/<br>10.0 kg<br>1.9             | ★★                   |                  | + SAE J1127 SGX, STX<br>+ SAE J1128 GXL, SXL, TXL<br>+ JASO D608 AEXF, AESSXF<br>+ HMC ES 91110-05<br>+ ISO 19642 T3 |             |
| <b>MECOLINE IS<br/>RDX 1251 F</b>  | -40<br>to<br>125           | 50 D           | 16.0                                   | 150                                   | 32      | 1.40            | 190°C/<br>10.0 kg<br>4.0             | ★★                   |                  | + EN 50306-1 S2, HL 4-M<br>+ EN 50306-2<br>+ EN 50306-4                                                              |             |
| <b>MECOLINE I<br/>RDX 1257 F</b>   | -40<br>to<br>125           | 49 D           | 12.0                                   | 180                                   | 36      | 1.47            | 170°C/<br>21.6 kg<br>32.0            | ★                    |                  | + EN 50264 EI 110                                                                                                    |             |
| <b>MECOLINE S<br/>RDX 1261 F</b>   | -40<br>to<br>125           | 87 A           | 12.0                                   | 150                                   | 37      | 1.59            | ML(1+4)<br>160°C<br>64               | ★★★★                 |                  | + EN 50264 EM 101-104<br>+ IEC 60092-360 SHF2                                                                        |             |
| <b>MECOLINE I<br/>RDX 1262 F</b>   | -40<br>to<br>125           | 34 D           | 14.0                                   | 500                                   | 31      | 1.36            | 160°C/<br>10.0 kg<br>9.4             | ★★                   |                  | + CSA AWM I A/B<br>+ UL 3266<br>+ UL 3271                                                                            |             |
| <b>MECOLINE IS<br/>RDX 1263 F</b>  | -40<br>to<br>120           | 43 D           | 12.0                                   | 250                                   | 31      | 1.37            | 150°C/<br>21.6 kg<br>4.0             | ★★                   |                  | + EN 50264 EI 105 & EI 110<br>+ EN 50363-5 EI 5 & EI 8                                                               |             |
| <b>MECOLINE I<br/>RDX 1266 F</b>   | -50<br>to<br>125           | 56 D           | 15.3                                   | 212                                   | 27      | 1.36            | 150°C/<br>10.0 kg<br>1.8             | ★★                   |                  | + JASO D608 AESSXF<br>+ JASO D608 AEXF<br>+ ISO 19642 T3                                                             |             |



## Radiation cross-linkable, **halogenated** insulation and sheathing compounds

| MELOS CODE                 | Operating temperature [°C] | Shore hardness | Tensile strength [N/mm <sup>2</sup> ] -crosslinked- | Elongation at break [%] -crosslinked- | LOI [%] | Density [g/cm <sup>3</sup> ] | Viscosity MFI [g/10 min] Mooney [MU] | Oil resistance level | Special features | Standards                                                                                                         | Application |
|----------------------------|----------------------------|----------------|-----------------------------------------------------|---------------------------------------|---------|------------------------------|--------------------------------------|----------------------|------------------|-------------------------------------------------------------------------------------------------------------------|-------------|
| <b>MECOLINE I RDX 5233</b> | -50 to 150                 | 60 D           | 20.0                                                | 400                                   | -       | 1.05                         | 190°C/ 21.6 kg<br>12.0               | ★                    |                  | + NEMA WC 27500<br>+ SAE AS 81044/9<br>+ SAE AS 81044/11<br>+ SAE AS 81044/12<br><b>Note: not flame retardant</b> |             |

**Mecoline I RDX 5233:** Halogen-free product, but only applicable in combination with the halogenated Mecoline IS RDX 5241 F (see below)

|                               |            |      |      |     |    |      |                        |     |  |                                               |  |
|-------------------------------|------------|------|------|-----|----|------|------------------------|-----|--|-----------------------------------------------|--|
| <b>MECOLINE IS RDX 5239 F</b> | -50 to 150 | 27 D | 16.0 | 300 | 25 | 1.24 | 190°C/ 2.16 kg<br>2.3  | ★   |  | + UL 3288 / 3289 / 3321 / 3398                |  |
| <b>MECOLINE IS RDX 5243 F</b> | -50 to 150 | 28 D | 19.0 | 400 | 28 | 1.30 | 190°C/ 2.16 kg<br>4.3  | ★★★ |  | + VG 95218 part 24 / 25 / 27 / 28             |  |
| <b>MECOLINE IS RDX 5265 F</b> | -50 to 150 | 50 D | 19.8 | 451 | 26 | 1.20 | 190°C/ 5.0 kg<br>3.4   | ★★  |  | + ISO 19642 T4                                |  |
| <b>MECOLINE IS RDX 5266 F</b> | -50 to 150 | 80 A | 19.5 | 427 | 26 | 1.21 | 150°C/ 3.8 kg<br>4.5   | ★★  |  | + ISO 19642 T4                                |  |
| <b>MECOLINE I RDX 5267 F</b>  | -55 to 150 | 51 D | 16.0 | 380 | 27 | 1.19 | 190°C/ 10.0 kg<br>10.8 | ★★★ |  | + ISO 19642 T4<br>+ SAE J1128 TXL / GXL / SXL |  |
| <b>MECOLINE IS RDX 5268 F</b> | -55 to 150 | 37 D | 17.3 | 552 | 26 | 1.20 | 190°C/ 10.0 kg<br>14.2 | ★★  |  | + JASO D 624                                  |  |

## Special compounds based on **fluoropolymers**, halogenated

|                               |            |      |      |     |    |      |                        |       |  |                                                                               |  |
|-------------------------------|------------|------|------|-----|----|------|------------------------|-------|--|-------------------------------------------------------------------------------|--|
| <b>MECOLINE IS RDX 5241 F</b> | -50 to 150 | 73 D | 30.0 | 150 | 42 | 1.75 | 150°C/ 21.6 kg<br>15.0 | ★★★★★ |  | + NEMA WC 27500<br>+ SAE AS 81044/9<br>+ SAE AS 81044/11<br>+ SAE AS 81044/12 |  |
| <b>MECOLINE IS RDX 5244 F</b> | -55 to 225 | 74 A | 12.0 | 200 | 43 | 1.90 | 230°C/ 21.6 kg<br>12.0 | ★★★★★ |  | + ISO 19642 T7                                                                |  |
| <b>MECOLINE IS RDX 5273 F</b> | -55 to 200 | 90 A | 14.5 | 320 | 43 | 2.00 | 230°C/ 21.6 kg<br>15.0 | ★★★★★ |  | + ISO 19642 T6                                                                |  |



## Halogen-free bedding compounds

| MELOS CODE                                                                                                  | Shore hardness | Mooney viscosity<br>ML (1+4) 100 °C [MO] | Density [g/cm <sup>3</sup> ] |  Collable for<br>2-step-process | LOI [%] | Tensile strength<br>[N/mm <sup>2</sup> ] | Elongation at break<br>[%] | Base polymer | Remarks & standards                                                    |
|-------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------|----------------------------|--------------|------------------------------------------------------------------------|
| <b>PVC/PVC Migration stabilised bedding compounds for PVC insulation and PVC sheathing</b>                  |                |                                          |                              |                                                                                                                  |         |                                          |                            |              |                                                                        |
| FM 0641                                                                                                     | 75 A           | 25                                       | 1.99                         |                                                                                                                  |         |                                          |                            | EPR          |                                                                        |
| FM 0700                                                                                                     | 90 A           | 15                                       | 2.01                         |                                                                                                                  |         |                                          |                            | POE          | High line speed                                                        |
| FM 0600/1                                                                                                   | 77 A           | 18                                       | 1.88                         | ■                                                                                                                |         | 1.0                                      | 30                         | EPR          |                                                                        |
| FM 976                                                                                                      | 70 A           | 27                                       | 1.88                         |                                                                                                                  | 35      |                                          |                            | EPR          | Flame retardant                                                        |
| FM 908 BK                                                                                                   | 65 A           | 22                                       | 1.86                         |                                                                                                                  |         |                                          |                            | EPR          | For Ceander cables                                                     |
| <b>XLPE/PVC Bedding compounds for XLPE insulation and PVC sheathing</b>                                     |                |                                          |                              |                                                                                                                  |         |                                          |                            |              |                                                                        |
| FM 942                                                                                                      | 75 A           | 25                                       | 1.80                         | ■                                                                                                                |         |                                          |                            | EPR          | Temperature range -40°C to +60°C                                       |
| FM 0553                                                                                                     | 87 A           | 25                                       | 1.92                         |                                                                                                                  |         |                                          |                            | TPE-O        |                                                                        |
| <b>XLPE/HFFR Non flame-retardant bedding compounds for XLPE insulation and HFFR sheathing</b>               |                |                                          |                              |                                                                                                                  |         |                                          |                            |              |                                                                        |
| FM 1224                                                                                                     | 50 A           | 45                                       | 1.84                         | ■                                                                                                                |         | 1.0                                      | 250                        | IIR          | Also suitable in combination with TPU & XLPE for flexible applications |
| FM 1426/4                                                                                                   | 70 A           | 30                                       | 1.75                         | ■                                                                                                                |         | 1.5                                      | 70                         | TPE-O/EPDM   | Good mechanical properties                                             |
| FM 1249                                                                                                     | 80 A           | 30                                       | 1.96                         |                                                                                                                  |         | 0.5                                      | 20                         | TPE-O        |                                                                        |
| <b>XLPE/HFFR Flame-retardant bedding compounds for XLPE insulation and HFFR sheathing</b>                   |                |                                          |                              |                                                                                                                  |         |                                          |                            |              |                                                                        |
| FM 1248                                                                                                     | 80 A           | 30                                       | 1.91                         |                                                                                                                  | 45      |                                          |                            | TPE-O        |                                                                        |
| FM 972                                                                                                      | 75 A           | 28                                       | 1.74                         |                                                                                                                  | 50      | 0.5                                      | 20                         | EPR          |                                                                        |
| FM 1239                                                                                                     | 70 A           | 30                                       | 1.87                         | ■                                                                                                                | 55      |                                          |                            | TPE-O        |                                                                        |
| FM 0474/5                                                                                                   | 74 A           | 32                                       | 1.82                         |                                                                                                                  | 63      |                                          |                            | TPE-O        | Very flame retardant                                                   |
| FM 0728                                                                                                     | 65 A           | 45                                       | 1.81                         | ■                                                                                                                | 67      | 1.5                                      | 20                         | TPE-O        |                                                                        |
| <b>Conductive Conductive bedding compounds</b>                                                              |                |                                          |                              |                                                                                                                  |         |                                          |                            |              |                                                                        |
| FM 264 BK                                                                                                   | 80 A           | 35                                       | 1.52                         |                                                                                                                  |         |                                          |                            | EPR          | PVC- & XLPE insulation                                                 |
| FM 303 BK                                                                                                   | 80 A           | 47                                       | 1.67                         | ■                                                                                                                |         |                                          |                            | IIR          | XLPE insulation                                                        |
| <b>Special Special bedding compounds with high mechanical properties (also suitable as inner sheathing)</b> |                |                                          |                              |                                                                                                                  |         |                                          |                            |              |                                                                        |
| FM 0527                                                                                                     | 36 D           | 35                                       | 1.61                         | ■                                                                                                                |         | 5.0                                      | 600                        | TPE-O        | TPU sheathing & XLPE insulation                                        |
| FM 0526                                                                                                     | 35 D           | 35                                       | 1.60                         | ■                                                                                                                | 34      | 4.0                                      | 300                        | TPE-O        | TPU sheathing & XLPE insulation, flame retardant                       |
| FM 0463                                                                                                     | 30 D           | 32                                       | 1.66                         | ■                                                                                                                | 25      | 3.0                                      | 300                        | TPE-O        | Good mechanical properties, flame retardant                            |
| FM 0715                                                                                                     | 39 D           | 43                                       | 1.64                         | ■                                                                                                                | 34      | 5.3                                      | 400                        | TPE-O        | BS 6724, VDE 0472 part 814, flame retardant                            |
| FM 1353                                                                                                     | 89 A           | 45                                       | 1.65                         | ■                                                                                                                | 40      | 4.0                                      | 200                        | TPE-O        | Flame retardant                                                        |



Customer Solutions

# RELIABLE & EFFICIENT COMPOUNDING

**With Melos you have a highly capable and reliable compounding partner at your side. Our experienced staff and efficient production machines allow us to offer technically sophisticated and cost saving solutions.**

With different production technologies at hand we are able to offer a wide range of compounds according to your specifications. Various rubbers and thermoplastics serve as base materials. Materials can be filled, coloured, blended or finished with functional additives. These unique abilities help us to provide the ideal customized compounding solution for the requirements of your specific industrial application. This allows us to produce exactly the right compound meeting all your requirements for your specific industrial application.



## Recycling

We recycle Start- and End-production material like lumps, fines and other off-spec. The granulation of your production scrap for a re-use provides a cost-saving, eco-friendly and sustainable solution.

## Toll Compounding

We develop formulations for special compounds and master batches exactly as specified by the customer or operate as subcontractor to compound materials directly as formulated. We have the ideas with which to meet your requirements.



TWIN SCREW



CO-KNEADERS



INTERNAL MIXERS

# 100%

Melos Quality



**Certificates of Melos GmbH**

**DIN EN ISO 9001** | Quality Management

**DIN EN ISO 14001** | Environmental Management

**DIN EN ISO 50001** | Energy Management

**DIN ISO 45001** | Occupational Health and Safety Management

# DO YOU HAVE QUESTIONS OR NEED PROFESSIONAL SUPPORT?

Please contact us.

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