



melos

TP

Compound flyer

# MECOLINE S TP 1045 F

This thermoplastic compound is designed for thick wall low and medium voltage applications. With it's excellent mechanical properties aspecially at high temperatures it is able to withstand harsh environmental conditions.



HIGHLY FLAME-RETARDANT



LOW SMOKE EMISSION



HALOGEN-FREE



ENVIRONMENTAL STRESS CRACK RESISTANT



TEAR RESISTANT



# MECOLINE S TP 1045 F

Compound flyer

| STANDARD FIGURES      | Description                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Key features          | Medium char formation<br>High flame retardancy<br>UV resistance (in UV or BK version)<br>Good ESCR (Environmental Stress Crack Resistance) |
| Cable construction    | For armoured low and medium voltage cable                                                                                                  |
| Fire class            | <b>CPR class Cca</b> can be archived in combination with XLPE insulation in armoured medium voltage cables                                 |
| Operating temperature | -40 to 90 °C                                                                                                                               |

| MELOS CODE                  | Operating temperature [°C] | Shore hardness | Tensile strength [N/mm²] | Elongation at break [%] | LOI [%] | Density [g/cm³] | Oil resistance level | Special features                                                                                                                                                                                                                                                                                                                                                                                                                    | Standards                                                                                                                                     | Applications                                                                          |
|-----------------------------|----------------------------|----------------|--------------------------|-------------------------|---------|-----------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>MECOLINE S TP 1045 F</b> | -40 to 90                  | 48D            | 13.1                     | 229                     | 38      | 1.50            | ★                    |      | + BS 7655 LTS1 / LTS2 / LTS4<br>+ BS 6724, BS 7835<br>+ VDE 0207-24 HM2, HM4<br>+ VDE 0207-363-8 TM7<br>+ IEC 60502-1<br>+ IEC 60092-360 SHF1 |  |

## TEAR STRENGTH AT DIFFERENT TEMPERATURES – UP TO 60°C

@ 23 °C –  
11.5 N/mm

@ 50 °C –  
6.9 N/mm

@ 60 °C –  
2.7 N/mm

### PICTOGRAM LEGEND

 Flame retardant

 Low-smoke

 Halogen-free

 Resistant to temp. variation

 Tear resistant

