

melos

TP

Compound flyer

# MECOLINE S TP 1050 F

Halogen-free thermoplastic, very flame retardant and low dripping sheathing compound.



Highly flame retardant



Low smoke, zero halogen



Low dripping and stable char formation



To fulfill high CPR classes in data cable



# MECOLINE S TP 1050 F

## Compound flyer

### Standards:

+ DIN EN 50363-8 TM7  
+ DIN VDE 0250-215 HM5  
+ BS 7655-6.1 LTS 1-4  
+ DIN VDE 0207-24 HM2, HM4  
+ IEC 60092-360 SHF1

### Operating temperature [°C]:

-40 to 90

## PROPERTIES

	Unit	Typical value	Test method
Density	g/cm <sup>3</sup>	1.57	DIN EN ISO 1183-1A
Hardness	Shore D	53	DIN ISO 48-4
Melt flow index (150°C; 21.6 kg)	g/10 min	7.5	DIN EN ISO 1133
Tensile strength	MPa	10.3	IEC 60811-501
Elongation at break	%	176	IEC 60811-501
Hot pressure test 6 h at 90°C	%	24	IEC 60811-508
LOI	%	51	ASTM D 2863 A
<b>Acid gas emission</b>			
Corrosivity: pH (min.)	–	≥ 4.5	IEC 60754-2
Conductivity (max.)	μS/mm	≤ 10	IEC 60754-2

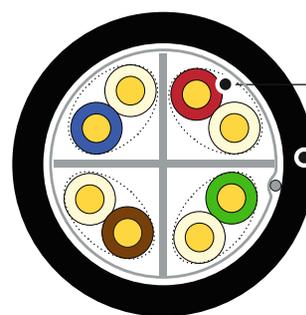
## BURNING TEST RESULTS

Criteria	Measured value	Evaluation criteria according to EN 13501-6 for class B2 <sub>ca</sub>
<b>FS</b> Flame spread	0.69m	≤ 1.50m
<b>THR 1200s</b> Total heat release	4.6MJ	≤ 15MJ
<b>HRR<sub>max</sub></b> Max. heat release rate	16.0kW	≤ 30kW
<b>SPR<sub>max</sub></b> Max. smoke production rate	0.029m <sup>2</sup> /s	≤ 0.25m <sup>2</sup> /s
<b>TSP1200s</b> Total smoke production	7.5m <sup>2</sup>	≤ 50m <sup>2</sup>
<b>FIGRA</b> Fire growth rate	99.5Ws <sup>-1</sup>	≤ 150Ws <sup>-1</sup>
Burning droplets	d1	Yes, but less than 10s



**Class B2<sub>ca</sub>-s1a,d1,a1**  
according to EN 50399

Tested construction: Cat.6 F/UTP 4x2x23 AWG LSOH



- Insulation  
HDPE
- Sheathing  
Mecoline S TP 1050 F

Note: The information given in this flyer is believed to be accurate and reliable. However, no warranty, express or implied, or guarantee is given as to the suitability, accuracy, reliability or completeness of the information. This information does not hold us liable for damages or penalties resulting from following our suggestions or recommendations.

Melos GmbH | Bismarckstraße 4–10 | 49324 Melle, Germany  
Tel.: +49 54 22 94 47-0 | E-Mail: info@melos-gmbh.com

www.melos-gmbh.com

