

Mecoline S TP 1021 F

Thermoplastic

Melos GmbH

Message:

Halogen-free, low smoke, thermoplastic, highly flame retardant compound for the sheathing of low and medium voltage cables in General Installations applications. This compound features a high line speed and good processability.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Processability		
	Halogen Free		
	Low Smoke Emission		
Uses	Cable Jacketing		
	Low Voltage Insulation		
	Medium Voltage Insulation		
	Wire & Cable Applications		
Agency Ratings	BS 7655 LTS		
	BS 7655 LTS 3		
	EN 50363-8 TM7		
	IEC 60092-359 SHF-1		
	VDE 0207 part 24 HM2		
	VDE 0250 part 215 HM5		
	VDE 0281 part 14 TM7		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	9.0	g/10 min	ISO 1133
Water Absorption - after 24h at 90°C	1.11	mg/cm ²	IEC 811-1-3
pH	> 4.5		IEC 60754-2
Hot Pressure Test - penetration 6h at 80°C	13	%	DIN VDE 0472
Temperature Index	290	°C	ASTM D2863
Conductivity	< 10.0	µS/mm	
Halogen Content	0	%	IEC 754-1
Toxicity	0.800		EN 50305

Tear Strength	7.10	MPa	BS 6469 99.1
Head Temperature	140 to 160	°C	
Extruder Screw L/D Ratio	20.0:1.0 to 25.0:1.0		
Extruder Screw Compression Ratio	1.0:1.2		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	48		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	10.8	MPa	IEC 811-1-1
Tensile Strain			
Break	230	%	IEC 811-1-1
Break, -30°C	27	%	IEC 811-1-4
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 811-1-2
100°C, 168 hr	3.3	%	
110°C, 168 hr	8.9	%	
Change in Tensile Strain at Break in Air			IEC 811-1-2
100°C, 168 hr	-13	%	
110°C, 168 hr	-29	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-25.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ¹ (23°C)	1.2E+13	ohms·cm	IEC 60167
Electric Strength ² (23°C)	21	kV/mm	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	42	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	90.0 to 110	°C	
Cylinder Zone 2 Temp.	105 to 125	°C	
Cylinder Zone 3 Temp.	120 to 140	°C	
Cylinder Zone 4 Temp.	120 to 140	°C	
Cylinder Zone 5 Temp.	130 to 150	°C	
Adapter Temperature	135 to 155	°C	
Die Temperature	150 to 170	°C	
NOTE			
1.	500V		
2.	50 Hz		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

