

Mecoline IS TP 1002 F

Thermoplastic

Melos GmbH

Message:

Halogen-free, low smoke, thermoplastic, flame retardant compound for the sheathing and insulation of low and medium voltage cables in General Installation applications.

General Information	
Additive	Flame Retardant
Features	Flame Retardant
	Halogen Free
	Low Smoke Emission
Uses	Cable Jacketing
	Insulation
	Low Voltage Insulation
	Medium Voltage Insulation
	Wire & Cable Applications
Wire Types	HM2
	HM4
	LTS 1
	LTS 4
	SHF1
Agency Ratings	BS 6724
	BS 7655:6.1 Type LTS 2
	EN 50363-7 TI6
	EN 50363-7 TI7
	EN 50363-8 TM7
	IEC 60092-359 SHF-1
	VDE 0207 part 24 HM2
	VDE 0207 part 24 HM4
	VDE 0250 part 215 HM5
	VDE 0276 part 604 HM4
	VDE 0281 part 14 TI6
	VDE 0281 part 14 TM7
RoHS Compliance	RoHS Compliant
Forms	Pellets

Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	7.0	g/10 min	ISO 1133
Mooney Viscosity (ML 1+4, 150°C)	38	MU	DIN 53523
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	55		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	11.0	MPa	IEC 811-1-1
Tensile Strain (Break)	190	%	IEC 811-1-1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 811-1-2
100°C, 240 hr	5.5	%	
110°C, 168 hr	-10	%	
Change in Tensile Strain at Break in Air			IEC 811-1-2
100°C, 240 hr	-2.7	%	
110°C, 168 hr	-3.8	%	
Thermal	Nominal Value	Unit	Test Method
Hot Pressure Test			DIN VDE 0472
penetration 6h at 80°C	1.0	%	
penetration 6h at 90°C	8.0	%	
Temperature Index	295	°C	NES 715
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		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ¹ (23°C)	1.5E+12	ohms · cm	IEC 60093
Electric Strength ² (23°C)	20	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	37	%	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		

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