

Mecoline S TP 1028

Thermoplastic

Melos GmbH

Message:

Halogen-free, low smoke, thermoplastic, flame retardant compound for the sheathing of low and medium voltage cables in General Installation applications. The 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 7655:6.1 Type LTS 1		
	BS 7655:6.1 Type LTS 3		
	EN 50363-8 TM7		
	IEC 60092-359 SHF-1		
	VDE 0207 part 24 HM2		
	VDE 0250 part 215 HM5		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	12	g/10 min	ISO 1133
pH	> 4.5		IEC 60754-2
Hot Pressure Test - penetration 6h at 80°C	6.0	%	DIN VDE 0472
Conductivity	< 10.0	µS/mm	
Halogen Content	0	%	IEC 754-1
Head Temperature	160 to 180	°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)	47		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	10.9	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 (100°C, 168 hr)	6.4	%	IEC 811-1-2
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-18	%	IEC 811-1-2
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	36	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	110 to 130	°C	
Cylinder Zone 2 Temp.	120 to 140	°C	
Cylinder Zone 3 Temp.	130 to 150	°C	
Cylinder Zone 4 Temp.	140 to 160	°C	
Cylinder Zone 5 Temp.	150 to 170	°C	
Adapter Temperature	155 to 175	°C	
Die Temperature	160 to 180	°C	

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