

Mecoline S TP 1013 F

Thermoplastic

Melos GmbH

Message:

Halogen-free, low smoke, thermoplastic, highly oil and extra fuel resistant, flame retardant compoundfor the sheathing of lovv and medium voltage cables for moving applications. (e. g. Green Energy/Offshore)

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Fuel Resistant		
	Good Flexibility		
	Halogen Free		
	Low Smoke Emission		
	Low Temperature Flexibility		
	Oil Resistant		
Uses	Cable Jacketing		
	Low Voltage Insulation		
	Medium Voltage Insulation		
	Wire & Cable Applications		
Agency Ratings	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 TM7		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm³	ISO 1183/A
Mooney Viscosity (ML 1+4, 160°C)	58	MU	DIN 53523
pH	> 5.0		IEC 60754-2
Hot Pressure Test			IEC 811-3-1
penetration 6h at 100°C	18	%	
penetration 6h at 90°C	12	%	

Conductivity	< 0.400	μS/mm	
Toxicity			
--	3.60		EN 50305
--	< 1.20		NES 713
Halogen Acid Gas Evolution	< 5.00	mg/g	IEC 60754-2
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 A)	89		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	10.8	MPa	IEC 811-1-1
Tensile Strain (Break)	300	%	IEC 811-1-1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 811-1-2
80°C, 168 hr	17	%	
136°C, 168 hr	-6.5	%	
Change in Tensile Strain at Break in Air			IEC 811-1-2
80°C, 168 hr	-9.0	%	
136°C, 168 hr	-11	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-42.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	38	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	130 to 150	°C	
Cylinder Zone 2 Temp.	140 to 160	°C	
Cylinder Zone 3 Temp.	140 to 160	°C	
Cylinder Zone 4 Temp.	150 to 170	°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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