

Melos™ FM 1249

Thermoplastic Polyolefin Elastomer

Melos GmbH

Message:

Non flame-retardant bedding compound for XLPE insulation and HFFR sheathing.
Bedding compound for cables and wire with max. 90°C operating temperature at conductor.

General Information			
Features	Halogen Free		
Uses	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.96	g/cm³	ISO 1183/A
Mooney Viscosity (ML 1+4, 100°C)	30	MU	DIN 53523
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	80		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 0.500	MPa	IEC 811-1-1
Tensile Strain (Break)	> 20	%	IEC 811-1-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+9	ohms	VDE 0472
Volume Resistivity (27°C)	> 1.0E+12	ohms · cm	VDE 0472
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	80.0 to 100	°C	
Cylinder Zone 2 Temp.	90.0 to 110	°C	
Cylinder Zone 3 Temp.	90.0 to 110	°C	
Cylinder Zone 4 Temp.	95.0 to 115	°C	
Adapter Temperature	100 to 120	°C	
Head Temperature	105 to 125	°C	
Extruder Screw L/D Ratio	12.0:1.0 to 25.0:1.0		
Extruder Screw Temperature	70 to 90	°C	
Die Temperature	110 to 130	°C	

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