

Melos™ FM 1639

Thermoplastic Polyolefin Elastomer

Melos GmbH

Message:

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			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Uses	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.83	g/cm ³	ISO 1183/A
Mooney Viscosity (ML 1+4, 100°C)	25	MU	DIN 53523
pH	> 4.3		DIN VDE 0472
Conductivity	< 100	µS/cm	
Head Temperature	100 to 120	°C	
Extruder Screw L/D Ratio	12.0:1.0 to 25.0:1.0		
Extruder Screw Temperature	60 to 80	°C	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	70		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	2.20	MPa	IEC 811-1-1
Tensile Strain (Break)	50	%	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
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	51	%	ASTM D2863
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	95.0 to 115	°C	

Die Temperature

100 to 120

°C

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