

Mecoline S RDX 1203 F

Thermoplastic

Melos GmbH

Message:

Halogen-free, low smoke, highly oil and extra fuel resistant radiation cross-linkable, flame retardant compound for thin wall insulation of wire for Rolling Stock, Offshore and Marine/Aerospace applications.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Fuel Resistant		
	Halogen Free		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Smoke Emission		
	Oil Resistant		
Uses	Aerospace Applications		
	Marine Applications		
	Power Cable Jacketing		
	Telecommunications		
	Thin-walled Insulation		
	Wire & Cable Applications		
Wire Types	EM 104		
	HM1		
	HM3		
	SHF2		
	SW4		
Agency Ratings	EN 50264 EM104		
	IEC 60092-359 SHF2		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	8.0	g/10 min	ISO 1133
Mooney Viscosity (ML 1+4, 150°C)	29	MU	DIN 53523

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	50		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- ¹	14.3	MPa	
-- ²	9.00	MPa	
Tensile Strain			IEC 811-1-1
Break ³	170	%	
Break ⁴	210	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 811-1-2
120°C, 240 hr	21	%	
150°C, 168 hr	24	%	
Change in Tensile Strain at Break in Air			IEC 811-1-2
120°C, 240 hr	-16	%	
150°C, 168 hr	-20	%	
Thermal	Nominal Value	Unit	Test Method
Hot Set ⁵			IEC 540
Elongation under load	15	%	
Residual elongation	5.0	%	
Head Temperature	165 to 185	°C	
Extruder Screw L/D Ratio	20.0:1.0 to 25.0:1.0		
Extruder Screw Compression Ratio	1.0:1.2		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	34	%	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	170 to 190	°C	
NOTE			
1.	After crosslinking		
2.	Before crosslinking		
3.	After crosslinking		
4.	Before crosslinking		
5.	at 200°C/15min/0.2 MPa		

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