

Mecoline S RDX 1209 F

Thermoplastic

Melos GmbH

Message:

Halogen-free, low smoke, highly oil and extra fuel resistant radiation cross-linkable, max. operating temperature 145°C, flame retardant compound of low and medium voltage cables for General Installation applications.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Fuel Resistant		
	Halogen Free		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Smoke Emission		
	Oil Resistant		
Uses	Cable Jacketing		
	Low Voltage Insulation		
	Medium Voltage Insulation		
	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	15	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	45		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- ¹	> 13.5	MPa	
-- ²	> 10.0	MPa	
Tensile Strain			IEC 811-1-1
Break ³	> 180	%	
Break ⁴	> 220	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (145°C, 3000 hr)	-1.5	%	IEC 811-1-2

Change in Tensile Strain at Break in Air (145°C, 3000 hr)	-26	%	IEC 811-1-2
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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