Mecoline IS RDX 1221 F

Thermoplastic

Melos GmbH

Message:

This compound is an ideal choice for the insulation of heat-resistant wires and cables for general applications in railway systems, nuclear power stations, engine compartments and other areas.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant Good Flexibility Halogen Free High Heat Resistance Irradiation Crosslinkable Low Smoke Emission Low Temperature Flexibility		
Uses	Automotive Applications Cable Jacketing Insulation Nuclear Power Applications Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.41	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (160°C/10.0 kg)	7.0	g/10 min	ISO 1133
pH	4.5		IEC 60754-2
Hot Set [1]			IEC 540
Elongation under load	20	%	
Residual elongation	10	%	
Temperature Index	225	°C	ASTM D2863
Conductivity	2.00	µS/mm	
Halogen Content	0	%	IEC 754-1
Toxicity	2.00		EN 50305
Head Temperature	160 to 170	°C	
Extruder Screw L/D Ratio	>24.0:1.0		
Hardness	**Nominal Value**	**Unit**	**Test Method**

Shore Hardness (Shore D)	49		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- [2]	17.0	MPa	
-- [3]	> 8.00	MPa	
Tensile Strain			IEC 811-1-1
Break [4]	350	%	
Break [5]	> 600	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (158°C, 168 hr)	10	%	IEC 811-1-2
Change in Tensile Strain at Break in Air (158°C, 168 hr)	-2.0	%	IEC 811-1-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+12	ohms·cm	ASTM D257
Dielectric Strength	25	kV/mm	ASTM D149
Dielectric Constant (20°C, 50 Hz)	5.00		ASTM D150
Dissipation Factor (20°C, 50 Hz)	0.025		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	32	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	50.0	°C	
Drying Time	3.0	hr	
Cylinder Zone 1 Temp.	130 to 140	°C	
Cylinder Zone 2 Temp.	150 to 160	°C	
Cylinder Zone 3 Temp.	160 to 170	°C	
Cylinder Zone 4 Temp.	160 to 170	°C	
Cylinder Zone 5 Temp.	160 to 170	°C	
Adapter Temperature	160 to 170	°C	
Die Temperature	160 to 170	°C	
NOTE			
1.	at 200°C/15min/0.2 MPa		
2.	After crosslinking		
3.	Before crosslinking		
4.	After crosslinking		
5.	Before crosslinking		

Recommended distributors for this material

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