

Mecoline I RDX 1223 F

Thermoplastic

Melos GmbH

Message:

This compound is an ideal choice for the insulation of heat-resistant wires and cables for 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		
	Insulation		
	Nuclear Power Applications		
	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (160°C/10.0 kg)	8.0	g/10 min	ISO 1133
pH	4.8		IEC 60754-2
Hot Set ¹			IEC 540
Elongation under load	20	%	
Residual elongation	10	%	
Temperature Index	275	°C	ASTM D2863
Conductivity	2.00	µS/mm	
Halogen Content	0	%	IEC 754-1
Toxicity	1.00		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)	48		ISO 7619

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- ²	14.0	MPa	
-- ³	9.00	MPa	
Tensile Strain			IEC 811-1-1
Break ⁴	400	%	
Break ⁵	750	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (158°C, 168 hr)	5.0	%	IEC 811-1-2
Change in Tensile Strain at Break in Air (158°C, 168 hr)	-3.0	%	IEC 811-1-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (50 Hz)	3.90		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	30	%	ASTM D2863
Extrusion	Nominal Value	Unit	
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		

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