

Mecoline IS RDX 5243 F

Thermoplastic

Melos GmbH

Message:

System cabling for military vehicles, aerospace, sensor technology, engine & transformer construction, automotive motor compartments and industrial automation and process controls.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Abrasion Resistance		
	Good Flexibility		
	Halogenated		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Smoke Emission		
	Low Temperature Flexibility		
Uses	Oil Resistant		
	Aerospace Applications		
	Automotive Applications		
	Cable Jacketing		
	Insulation		
	Marine Applications		
	Military Applications		
	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.3	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	19		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- 1	19.0	MPa	
-- 2	> 10.0	MPa	
Tensile Strain			

Break ³	400	%	IEC 811-1-1
Break ⁴	> 600	%	IEC 811-1-1
Break, -50°C	> 30	%	IEC 811-1-4
Break, -40°C	> 150	%	IEC 811-1-4
Thermal	Nominal Value	Unit	Test Method
Hot Set ⁵			IEC 540
Elongation under load	25	%	
Residual elongation	10	%	
Head Temperature	170 to 180	°C	
Extruder Screw L/D Ratio	>24.0:1.0		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D2671
Dielectric Constant (50 Hz)	4.80		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	28	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	50.0	°C	
Drying Time	3.0	hr	
Cylinder Zone 1 Temp.	150 to 160	°C	
Cylinder Zone 2 Temp.	160 to 170	°C	
Cylinder Zone 3 Temp.	165 to 175	°C	
Cylinder Zone 4 Temp.	170 to 180	°C	
Cylinder Zone 5 Temp.	170 to 180	°C	
Adapter Temperature	170 to 180	°C	
Die Temperature	170 to 180	°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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