

Mecoline IS RDX 5242 F

Polyvinylidene Fluoride

Melos GmbH

Message:

This compound is an excellent choice for manufacturing insulated hook-up wires in military and aerospace industries (airframe wire) and component conductors for MIL-C-27500 cables.

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		
	Cable Jacketing		
	Insulation		
	Marine Applications		
	Military Applications		
Agency Ratings	Wire & Cable Applications		
	MIL C-27500		
	MIL W-81044/12		
RoHS Compliance	MIL W-81044/9		
	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.75	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/21.6 kg)	42	g/10 min	ISO 1133
Water Absorption - 24h at 23°C	0.500	mg/cm ²	ASTM D570
Head Temperature	220 to 230	°C	
Extruder Screw L/D Ratio	25.0:1.0 to 30.0:1.0		
Hardness	Nominal Value	Unit	Test Method

Shore Hardness (Shore D)	65		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹	> 25.0	MPa	IEC 811-1-1
Tensile Elongation			
Break ²	> 130	%	ASTM D638, IEC 811-1-2
Break ³	> 180	%	IEC 811-1-1
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+11	ohms·cm	ASTM D257
Dielectric Strength	> 15	kV/mm	ASTM D2671
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	42	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 to 190	°C	
Cylinder Zone 2 Temp.	190 to 200	°C	
Cylinder Zone 3 Temp.	200 to 210	°C	
Cylinder Zone 4 Temp.	210 to 220	°C	
Cylinder Zone 5 Temp.	210 to 220	°C	
Adapter Temperature	220 to 230	°C	
Die Temperature	220 to 230	°C	
NOTE			
1.	After crosslinking		
2.	After ageing in air oven 168h at 200°C		
3.	After crosslinking		

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