

Mecoline I RDX 5233

Thermoplastic

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-275000 cables.

General Information			
Features	Good Abrasion Resistance High Heat Resistance Irradiation Crosslinkable Low Smoke Emission Oil Resistant		
Uses	Aerospace Applications Insulation Marine Applications Military Applications Wire & Cable Applications		
Agency Ratings	MIL C-27500 MIL W-81044/11 MIL W-81044/9		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	12	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- ¹	> 20.0	MPa	
-- ²	> 30.0	MPa	
Tensile Strain			IEC 811-1-1
Break ³	> 400	%	
Break ⁴	> 700	%	
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	140 to 150	°C
Cylinder Zone 2 Temp.	150 to 160	°C
Cylinder Zone 3 Temp.	160 to 170	°C
Cylinder Zone 4 Temp.	170 to 180	°C
Cylinder Zone 5 Temp.	170 to 180	°C
Adapter Temperature	170 to 180	°C
Head Temperature	170 to 180	°C
Extruder Screw L/D Ratio	25.0:1.0 to 30.0:1.0	
Die Temperature	170 to 180	°C

NOTE

1.	After crosslinking
2.	Before crosslinking
3.	After crosslinking
4.	Before crosslinking

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