

Mecoline IS RDX 1207 F

Thermoplastic
Melos GmbH

Message:

Halogen-free, low smoke, UV and ozone resistant, max. operating temperature 125°C, radiation cross-linkable, flame retardant compound for photovoltaic/solar cables for Green Energy/Solar applications.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good UV Resistance		
	Halogen Free		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Smoke Emission		
	Ozone Resistant		
Uses	Cable Jacketing		
	Insulation		
	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (170°C/21.6 kg)	23	g/10 min	ISO 1133
pH	> 4.5		EN 50267-2-2
Hot Pressure Test - penetration 4h at 140°C	24	%	IEC 811-3-1
Hot Set ¹			IEC 540
Elongation under load	15	%	
Residual elongation	5.0	%	
Temperature Index	250	°C	ASTM D2863
Conductivity	< 10.0	µS/mm	
Head Temperature	170 to 190	°C	
Extruder Screw L/D Ratio	20.0:1.0 to 25.0:1.0		
Extruder Screw Compression Ratio	1.0:1.2		
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	12.3	MPa	
-- ³	10.0	MPa	
Tensile Strain			IEC 811-1-1
Break ⁴	160	%	
Break ⁵	230	%	
Break, -40°C	> 30	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			EN 50395
20°C	> 1.0E+14	ohms·cm	
90°C	> 1.0E+11	ohms·cm	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	34	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	130 to 150	°C	
Cylinder Zone 2 Temp.	140 to 160	°C	
Cylinder Zone 3 Temp.	150 to 170	°C	
Cylinder Zone 4 Temp.	160 to 180	°C	
Cylinder Zone 5 Temp.	160 to 180	°C	
Adapter Temperature	165 to 185	°C	
Die Temperature	170 to 190	°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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