

Mecoline IS RDX 5240 F

Thermoplastic

Melos GmbH

Message:

Appliance wire, wire for solar panels, gearboxes, etc.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Flexibility		
	Halogenated		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Temperature Flexibility		
Uses	Appliances		
	Cable Jacketing		
	Insulation		
	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	4.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- ¹	16.0	MPa	
-- ²	> 10.0	MPa	
Tensile Strain			
Break ³	350	%	IEC 811-1-1
Break ⁴	> 500	%	IEC 811-1-1
Break, -50°C	> 30	%	IEC 811-1-4
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (158°C, 168 hr)	3.0	%	IEC 811-1-2
Change in Tensile Strain at Break in Air (158°C, 168 hr)	-4.0	%	IEC 811-1-2
Thermal	Nominal Value	Unit	Test Method
Deformation (158°C)	12	%	

Hot Set ⁵			IEC 540
Elongation under load	< 40	%	
Residual elongation	< 10	%	
Head Temperature	155 to 165	°C	
Extruder Screw L/D Ratio	>24.0:1.0		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant (50 Hz)	3.50		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	32	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	130 to 140	°C	
Cylinder Zone 2 Temp.	140 to 150	°C	
Cylinder Zone 3 Temp.	150 to 160	°C	
Cylinder Zone 4 Temp.	155 to 165	°C	
Cylinder Zone 5 Temp.	155 to 165	°C	
Adapter Temperature	155 to 165	°C	
Die Temperature	160 to 170	°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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