Mecoline IS RDX 5239 F

Thermoplastic

Melos GmbH

Message:

This compounds results in an extremely smooth surface, while still showing an extrudability at high speeds. The high temperature rating makes this compound an ideal choice for the insulation of heat-resistant wires and cables for applications in areas where wires and cables should withstand the high temperatures in small compartments.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant Good Flexibility Halogenated High Heat Resistance Irradiation Crosslinkable Low Smoke Emission Low Temperature Flexibility Oil Resistant		
Uses	Automotive Applications Cable Jacketing Insulation Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.22	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	3.5	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	43		ISO 7619
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			IEC 811-1-1
-- [1]	> 16.0	MPa	
-- [2]	> 8.00	MPa	
Tensile Strain			
Break [3]	> 300	%	IEC 811-1-1
Break [4]	> 500	%	IEC 811-1-1
Break, -50°C	> 30	%	IEC 811-1-4

Thermal	Nominal Value	Unit	Test Method
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+15	ohms·cm	IEC 60093
Electric Strength	25	kV/mm	EN 60243-1
Dielectric Constant (50 Hz)	2.80		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	27	%	ASTM D2863
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	50.0	°C	
Drying Time	3.0	hr	
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		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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