

Mecoline IS RDX 5234 F

Thermoplastic

Melos GmbH

Message:

Automotive primary wire motor lead wires for coil connections, class F motors and transformers, pumps, solenoids, Internal wiring of appliances, sensor wires, flexible battery cables and wire insulation of low voltage multicore cables for road vehicles.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Abrasion Resistance		
	Good Flexibility		
	Halogenated		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Temperature Flexibility		
	Oil Resistant		
Uses	Appliances		
	Automotive Applications		
	Cable Jacketing		
	Insulation		
	Low Voltage Insulation		
	Wire & Cable Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	50		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- ¹	17.0	MPa	
-- ²	15.0	MPa	
Tensile Strain			
Break ³	330	%	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	30	%	
Residual elongation	< 10	%	
Head Temperature	145 to 155	°C	
Extruder Screw L/D Ratio	>24.0:1.0		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	25	kV/mm	ASTM D149
Dielectric Constant (20°C, 50 Hz)	2.90		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	27	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	4.0	hr	
Cylinder Zone 1 Temp.	130 to 140	°C	
Cylinder Zone 2 Temp.	140 to 150	°C	
Cylinder Zone 3 Temp.	145 to 155	°C	
Cylinder Zone 4 Temp.	145 to 155	°C	
Cylinder Zone 5 Temp.	145 to 155	°C	
Adapter Temperature	145 to 155	°C	
Die Temperature	145 to 155	°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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