

Mecoline IS RDX 1231 F

Thermoplastic
Melos GmbH

Message:

It is an excellent choice for single core power cable for protected, fixed installation inside and outside railway vehicles for connecting fixed parts in direct current and alternating voltage technology, especially converter technology. The RDX 2264-3 compound is very low temperature resistant to -40°C and IRM 902 & IRM 903 oil resistant

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Flexibility		
	Halogen Free		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Smoke Emission		
	Low Temperature Flexibility		
	Low Temperature Resistant		
Uses	Oil Resistant		
	Aerospace Applications		
	Cable Jacketing		
	Insulation		
	Marine Applications		
	Power Cable Jacketing		
Agency Ratings	Wire & Cable Applications		
	EN 50264 EM 101		
	EN 50264 EM 102		
	EN 50264 EM 103		
RoHS Compliance	EN 50264 EM 104		
	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (175°C/21.6 kg)	7.0	g/10 min	ISO 1133
pH	> 4.5		IEC 60754-2
Shrinkage - 1h at 120°C	< 2.0	%	IEC 811-1-3

Hot Pressure Test - penetration 4h at 140°C	< 50	%	DIN VDE 0472
Hot Set ¹			IEC 540
Elongation under load	< 40	%	
Residual elongation	< 10	%	
Temperature Index	300	°C	ASTM D2863
Conductivity	< 4.00	μS/mm	
Halogen Content	0	%	IEC 754-1
Toxicity	2.00		EN 50305
Vertical Burn Test	< 540	mm	
Head Temperature	160 to 170	°C	
Extruder Screw L/D Ratio	>24.0:1.0		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	85		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- ²	> 12.0	MPa	
-- ³	> 9.00	MPa	
Tensile Strain			
Break ⁴	> 180	%	IEC 811-1-1
Break ⁵	> 200	%	IEC 811-1-1
Break, -40°C	> 35	%	IEC 811-1-4
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (120°C, 240 hr)	< 25	%	IEC 811-1-2
Change in Tensile Strain at Break in Air (120°C, 240 hr)	< 25	%	IEC 811-1-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	> 1.0E+10	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	40	%	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.	150 to 160	°C	
Cylinder Zone 3 Temp.	160 to 170	°C	
Cylinder Zone 4 Temp.	160 to 170	°C	
Cylinder Zone 5 Temp.	160 to 170	°C	
Adapter Temperature	160 to 170	°C	
Die Temperature	160 to 170	°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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