

Mecoline S RDX 1215 F

Thermoplastic

Melos GmbH

Message:

Halogen-free, low smoke, flexible at low temperatures, highly oil and extra fuel resistant, radiation cross-linkable, flame retardant compound for Offshore/Shipboard and Marine/Aerospace applications.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Fuel Resistant		
	Good Flexibility		
	Halogen Free		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Smoke Emission		
	Low Temperature Flexibility		
Uses	Oil Resistant		
	Aerospace Applications		
	Cable Jacketing		
	Marine Applications		
	Power Cable Jacketing		
	Telecommunications		
Agency Ratings	Wire & Cable Applications		
	EN 50264 EM104		
RoHS Compliance	IEC 60092-359 SHF2		
	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (175°C/21.6 kg)	15	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	83		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- 1	13.0	MPa	

-- ²	8.40	MPa	
Tensile Strain			IEC 811-1-1
Break ³	210	%	
Break ⁴	380	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (121°C, 168 hr)	13	%	IEC 811-1-2
Change in Tensile Strain at Break in Air (121°C, 168 hr)	-1.9	%	IEC 811-1-2
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	42	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	110 to 130	°C	
Cylinder Zone 2 Temp.	120 to 140	°C	
Cylinder Zone 3 Temp.	130 to 150	°C	
Cylinder Zone 4 Temp.	140 to 160	°C	
Cylinder Zone 5 Temp.	150 to 170	°C	
Adapter Temperature	160 to 180	°C	
Head Temperature	165 to 185	°C	
Extruder Screw L/D Ratio	20.0:1.0 to 25.0:1.0		
Extruder Screw Compression Ratio	1.0:1.2		
Die Temperature	170 to 190	°C	
NOTE			
1.	After crosslinking		
2.	Before crosslinking		
3.	After crosslinking		
4.	Before crosslinking		

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