

Mecoline I RDX 1201 F

Thermoplastic

Melos GmbH

Message:

A flame retardant, halogen-free and low smoke, oil resistant compound. Max. operating temperature 125°C.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	High Heat Resistance		
	Irradiation Crosslinkable		
	Low Smoke Emission		
	Oil Resistant		
Uses	Insulation		
	Wire & Cable Applications		
Wire Types	HI3		
	HJ1		
	HM3		
	HM5		
	SHF2		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (160°C/21.6 kg)	8.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	45		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 811-1-1
-- ¹	18.0	MPa	
-- ²	11.5	MPa	
Tensile Strain			IEC 811-1-1
Break ³	210	%	
Break ⁴	230	%	

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			IEC 811-1-2
155°C, 1008 hr	20	%	
165°C, 480 hr	11	%	
180°C, 144 hr	5.9	%	
Change in Tensile Strain at Break in Air			IEC 811-1-2
155°C, 1008 hr	-21	%	
165°C, 480 hr	-25	%	
180°C, 144 hr	-20	%	
Thermal	Nominal Value	Unit	Test Method
Hot Pressure Test - penetration 4h at 140°C	8.0	%	IEC 811-3-1
Hot Set ⁵			IEC 540
Elongation after unloading	10	%	
Elongation under load	25	%	
Head Temperature	180 to 200	°C	
Extruder Screw L/D Ratio	20.0:1.0 to 25.0:1.0		
Extruder Screw Compression Ratio	1.0:1.2		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁶			IEC 60093
23°C	3.5E+14	ohms·cm	
90°C	6.6E+11	ohms·cm	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	30	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	140 to 160	°C	
Cylinder Zone 2 Temp.	150 to 170	°C	
Cylinder Zone 3 Temp.	170 to 190	°C	
Cylinder Zone 4 Temp.	175 to 195	°C	
Cylinder Zone 5 Temp.	180 to 200	°C	
Adapter Temperature	180 to 200	°C	
Die Temperature	190 to 210	°C	
NOTE			
1.	After crosslinking		
2.	Before crosslinking		
3.	After crosslinking		
4.	Before crosslinking		
5.	at 200°C/15min/0.2 MPa		
6.	500V		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT