

Starflam® RX12414

polyamide 66



Starflam RX12414 is a radiation cross-linkable resin, unfilled, flame retardant PA66 for injection molded applications. The material is halogen free and red phosphorus free.

General				
Material Status	• Commercial: Active			
Availability	• Europe			
Additive	• Flame Retardant		• Heat Stabilizer	
Features	• Flame Retardant		• Halogen Free	
Uses	• Electrical/Electronic Applications		• Industrial Applications	
Appearance	• Natural Color			
Forms	• Pellets			
Processing Method	• Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.20	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress (Yield, 23°C)	50.0	--	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	11	--	%	ISO 527-2
Flexural Modulus (23°C)	2300	--	MPa	ISO 178
Flexural Strength (23°C)	77.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Unnotched Izod Impact Strength (23°C)	30	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
RTI Elec				UL 746B
0.8 mm	130	--	°C	
1.6 mm	130	--	°C	
3.0 mm	130	--	°C	
RTI Imp				UL 746B
0.8 mm	65.0	--	°C	
1.6 mm	65.0	--	°C	
3.0 mm	65.0	--	°C	
RTI Str				UL 746B
0.8 mm	65.0	--	°C	
1.6 mm	65.0	--	°C	
3.0 mm	65.0	--	°C	

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Electrical	Dry	Conditioned	Unit	Test Method
High Amp Arc Ignition (HAI)				UL 746
0.8 mm	PLC 0	--		
1.6 mm	PLC 0	--		
3.0 mm	PLC 0	--		
Hot-wire Ignition (HWI)				UL 746
0.8 mm	PLC 1	--		
1.6 mm	PLC 1	--		
3.0 mm	PLC 0	--		
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.8 mm	V-1	--		
1.6 mm	V-1	--		
3.0 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.8 mm	960	--	°C	
1.6 mm	960	--	°C	
3.0 mm	960	--	°C	
Injection	Dry	Unit		
Drying Temperature	80	°C		
Drying Time	4.0	hr		
Suggested Max Moisture	0.20	%		
Rear Temperature	265 to 275	°C		
Middle Temperature	275 to 285	°C		
Front Temperature	275 to 285	°C		
Processing (Melt) Temp	270 to 290	°C		
Mold Temperature	70 to 90	°C		

Notes

Typical properties: these are not to be construed as specifications.

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