

Radiflam® S FR 137 NAT

Polyamide 6

Radici Plastics

Message:

PA6 flame retardant injection moulding grade. Halogen and phosphorus free. Natural colour.

Suitable for parts where fire retardancy is required. Rated V-0 at 0.4 mm according to UL-94.

ISO 1043 : PA6 FR(30)

General Information				
UL YellowCard		E148796-101473241	E195505-101510646	E337835-101516836
		E195508-101520638		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
		Low (to None) Phosphorus Content		
RoHS Compliance		RoHS Compliant		
UL File Number		E116324		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6 FR(30)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.17	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	8.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3500	2450	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	75.0	45.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	15	> 50	%	ISO 527-2/1A/50
Flexural Modulus ¹	3200	--	MPa	ISO 178
Flexural Stress ²	115	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.5	--	kJ/m ²	
23°C	4.5	5.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	200	--	°C	ISO 306/B50
Melting Temperature	220	--	°C	ISO 11357
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	0.0	--	mm/min	FMVSS 302
Flame Rating				UL 94
0.400 mm	V-0	--		
0.800 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	960	--	°C	
2.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	800	--	°C	
2.00 mm	800	--	°C	
Injection	Dry	Unit		
Drying Temperature - Desiccant Dryer	80.0		°C	
Drying Time - Desiccant Dryer	2.0 to 4.0		hr	
Dew Point - Desiccant Dryer	< -20.0		°C	
Suggested Max Moisture	0.10		%	
Processing (Melt) Temp	240 to 280		°C	
Mold Temperature	70.0 to 80.0		°C	
Injection Rate	Moderate			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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