

Radiflam® S RV300K AE 121 C NAT 3702

Polyamide 6

Radici Plastics

Message:

PA6 flame retardant injection moulding grade. 30% glass fiber reinforced. Natural colour.

Suitable for parts requiring fire retardancy, high stiffness and good mechanical resistance. Rated V-0 according to UL-94.

ISO 1043 : PA6 GF30 FR(17+72)

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		High Stiffness		
RoHS Compliance		RoHS Compliant		
UL File Number		E116324		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6 GF30 FR(17+72)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	3.2	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11100	9900	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	115	85.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.9	1.9	%	ISO 527-2/1A/5
Flexural Modulus ¹	10300	--	MPa	ISO 178
Flexural Stress ²	180	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	--	°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	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	0.0	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	V-0	--		UL 94
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	850	--	°C	
2.00 mm	850	--	°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 270		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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