

Radiflam® S RV300 HF 333 NER 1531

Polyamide 6

Radici Plastics

Message:

PA66 flame retardant injection moulding grade, halogen and red phosphorus free. 30% glass fiber reinforced. Black colour.

Suitable for parts requiring fire retardancy along with high stiffness and good mechanical resistance.

Good electrical insulating properties. Rated V-0 according to UL-94.

ISO 1043 : PA6 GF30 FR(40+72)

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Electrically Insulating		
		Flame Retardant		
		Halogen Free		
		High Stiffness		
		Low (to None) Phosphorus Content		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6 GF30 FR(40+72)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.44	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10700	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	130	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.2	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	9500	--	MPa	ISO 178
Flexural Stress ²	200	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	55	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	--	°C	ISO 75-2/Af
Vicat Softening Temperature	210	--	°C	ISO 306/B50
Melting Temperature ³	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	550	--	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	725	--	°C	
2.00 mm	775	--	°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	280 to 300		°C	
Mold Temperature	80.0 to 100		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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