

Radiflam® A RV500 AF 375 NER 4849

Polyamide 66

Radici Plastics

Message:

PA66 flame retardant injection moulding grade with red phosphorus. 50% glass fiber reinforced. Improved impact properties. Black colour.

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

Rated V-0 at 0.75 mm according to UL-94.

ISO 1043 : PA66 GF50 FR(52)

General Information				
Filler / Reinforcement	Glass Fiber,50% Filler by Weight			
Additive	Flame Retardant			
Features	Flame Retardant			
	High Stiffness			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA66 GF50 FR(52)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.61	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17300	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	210	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	16200	--	MPa	ISO 178
Flexural Stress ²	330	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	85	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	--	°C	ISO 75-2/Af
Melting Temperature ³	260	--	°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	500	--	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	750	--	°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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