

Radilon® A RV500K 990 GRI

Polyamide 66

Radici Plastics

Message:

PA66 50% glass fiber reinforced injection moulding grade, low friction. Heat stabilized. Natural grey colour.

Suitable for parts requiring low friction, very high stiffness and high mechanical resistance. Good resistance to heat ageing.

ISO 1043 : PA66-T GF50

General Information				
Filler / Reinforcement	Glass Fiber,50% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Heat Aging Resistance			
	Heat Stabilized			
	High Stiffness			
	Low Friction			
RoHS Compliance	RoHS Compliant			
UL File Number	E116324			
Appearance	Grey			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA66-T GF50			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	4.6	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17300	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	220	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	16600	--	MPa	ISO 178
Flexural Stress ²	350	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (-30°C)	12	--	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)	245	--	°C	ISO 75-2/Af

Vicat Softening Temperature	250	--	°C	ISO 306/B50
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)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	700	--	°C	IEC 60695-2-12
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	0.15		%	
Processing (Melt) Temp	290 to 305		°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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