

Radilon® A RV500K 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 50% glass fiber reinforced injection moulding grade. Heat stabilized. Natural colour.

Suitable for parts requiring very high stiffness and high mechanical resistance, as in case of metal replacement applications. Good resistance to thermal 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			
Uses	Metal Replacement			
RoHS Compliance	RoHS Compliant			
UL File Number	E116324			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA66-T GF50			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm ³	ISO 1183
Molding Shrinkage ¹				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.30	--	%	
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	16500	12500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	235	175	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.1	3.2	%	ISO 527-2/1A/5
Flexural Modulus ²	15000	--	MPa	ISO 178
Flexural Stress ³	360	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	--	kJ/m ²	

23°C	17	28	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	100	--	kJ/m ²	
23°C	110	120	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/Af
Vicat Softening Temperature	250	--	°C	ISO 306/B50
Melting Temperature ⁴	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	550	--	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.	300°C Melt Temp / 90°C Mold Temp / 30 Mpa Cavity press			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10°C/min			

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