

Radilon® A RV500RW 339 NER 5398

Polyamide 66

Radici Plastics

Message:

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

Suitable for technical parts requiring very high stiffness and high mechanical resistance. Excellent heat ageing properties retention, improved welding lines strength. Especially fit for demanding metal replacement applications.

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			
Appearance	Black			
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
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	4.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17500	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	250	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	16200	--	MPa	ISO 178
Flexural Stress ²	385	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	100	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	255	--	°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
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				IEC 60695-2-12
1.00 mm	700	--	°C	
2.00 mm	700	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	725	--	°C	
2.00 mm	725	--	°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	0.15		%	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 100		°C	
Injection Rate	Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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