

Radilon® A CV500 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 50% glass beads filled injection moulding grade. Natural colour.

Suitable for parts requiring reduced shrinkage, low warpage and good surface aspect.

ISO 1043 : PA66 GB50

General Information				
Filler / Reinforcement	Glass Bead,50% Filler by Weight			
Features	Good Surface Finish			
	Low Shrinkage			
	Low Warpage			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA66 GB50			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.53	--	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	5800	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	75.0	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	5.0	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	5500	--	MPa	ISO 178
Flexural Stress ²	130	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.7	4.0	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	235	--	°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	600	--	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	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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