

Radilon® S RV500

Polyamide 6

Radici Plastics

Message:

PA6 50% Glass Fiber injection moulding grade. Very high stiffness and dimensional stability. Natural colour

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight			
Features	Good dimensional stability			
	Rigidity, high			
Appearance	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.54	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	4.8	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.4	--	%	ISO 62
Viscosity Number	140	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16400	11500	MPa	ISO 527-2
Tensile Stress (Break)	220	155	MPa	ISO 527-2
Tensile Strain (Break)	2.9	3.1	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/eA
-30°C	17	--	kJ/m ²	ISO 179/eA
23°C	18	30	kJ/m ²	ISO 179/eA
Charpy Unnotched Impact Strength				ISO 179/eU
-30°C	100	--	kJ/m ²	ISO 179/eU
23°C	110	110	kJ/m ²	ISO 179/eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	215	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	210	--	°C	ISO 75-2/Af
Vicat Softening Temperature	215	--	°C	ISO 306/B50
Melting Temperature (DSC)	220	--	°C	ISO 3146

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	--	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
Flame Rating				UL 94
0.800 mm	HB	--		UL 94
1.60 mm	HB	--		UL 94
Additional Information				

干燥
The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357-1-3 at a heating rate of 10°C/min.

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