Radilon® S RV350 100 NAT

Polyamide 6

Radici Plastics

Message:

PA6 35% glass fiber reinforced injection moulding grade. Natural colour.
Suitable for parts requiring high stiffness and good mechanical resistance.
ISO 1043 : PA6 GF35

General Information				
Filler / Reinforcement	Glass Fiber,35% Filler by Weight			
Features	High Stiffness			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6 GF35			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.38	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	6.4	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.8	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	11000	7350	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	190	115	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.3	3.5	%	ISO 527-2/1A/5
Flexural Modulus [1]	9900	--	MPa	ISO 178
Flexural Stress [2]	290	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m²	
23°C	14	30	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	--	kJ/m²	
23°C	95	100	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/Af

Vicat Softening Temperature	210	--	°C	ISO 306/B50
Melting Temperature [3]	220	--	°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	240 to 280		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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