

Radilon® S RV300 100 NAT

Polyamide 6

Radici Plastics

Message:

PA6 30% glass fiber reinforced injection moulding grade. Natural colour.
Suitable for parts requiring high stiffness and good mechanical resistance.
ISO 1043 : PA6 GF30

General Information				
UL YellowCard		E148796-101473259	E195505-101510664	E195508-101520656
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		High Stiffness		
RoHS Compliance		RoHS Compliant		
UL File Number		E116324		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6 GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage ¹				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	7.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9400	6400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	170	105	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.6	4.8	%	ISO 527-2/1A/5
Flexural Modulus ²	8400	--	MPa	ISO 178
Flexural Stress ³	260	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	--	kJ/m ²	
23°C	13	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m ²	
23°C	90	110	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/Af
Vicat Softening Temperature	210	--	°C	ISO 306/B50
Melting Temperature ⁴	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
Glow Wire Ignition Temperature (2.00 mm)	725	--	°C	IEC 60695-2-13
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. | 280°C Melt Temp / 80°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

