

Radilon® S RV300UK 339 E NER

Polyamide 6

Radici Plastics

Message:

PA6 30% glass fiber reinforced injection moulding grade. Improved UV resistance. Deep black colour.

Suitable for parts which must resist to outdoor exposure, requiring high stiffness, good mechanical resistance and good heat ageing properties retention.

ISO 1043 : PA6-T GF30

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Heat Aging Resistance		
		Good UV Resistance		
		Good Weather Resistance		
		High Stiffness		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-T GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
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	9600	6400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	165	105	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.1	4.0	%	ISO 527-2/1A/5
Flexural Modulus ¹	8000	--	MPa	ISO 178
Flexural Stress ²	240	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	--	kJ/m ²	
23°C	10	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m ²	
23°C	75	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°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	500	--	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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