

Radilon® S RV400K 333 NER

Polyamide 6

Radici Plastics

Message:

PA6 40% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour.

Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention.

ISO 1043 : PA6-T GF40

General Information				
Filler / Reinforcement	Glass Fiber,40% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Heat Aging Resistance			
	Heat Stabilized			
	High Stiffness			
RoHS Compliance	RoHS Compliant			
UL File Number	E116324			
Appearance	Black			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6-T GF40			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.44	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	6.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	9000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	200	120	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.1	3.4	%	ISO 527-2/1A/5
Flexural Modulus ¹	11800	--	MPa	ISO 178
Flexural Stress ²	300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	13	22	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	--	kJ/m ²	
23°C	95	110	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (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	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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