

Radilon® A RV350K 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 35% glass fiber reinforced injection moulding grade. Heat stabilized. Natural colour.

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

ISO 1043 : PA66-T GF35

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight			
Additive	heat stabilizer			
Features	Rigidity, high			
	Good heat aging resistance			
	Thermal Stability			
RoHS Compliance	RoHS compliance			
UL File Number	E116324			
Appearance	Natural color			
Processing Method	Injection molding			
Resin ID (ISO 1043)	PA66-T GF35			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C, 2.00mm	6.3	--	%	ISO 62
Balance, 23°C, 2.00mm, 50% RH	1.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	9900	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	195	130	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.6	4.0	%	ISO 527-2/1A/5
Flexural Modulus ¹	10000	--	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	8.0	--	kJ/m ²	ISO 179/1eA
23°C	11	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	--	kJ/m ²	ISO 179/1eU
23°C	100	110	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, not annealed	250	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	235	--	°C	ISO 75-2/Af
Vicat Softening Temperature	250	--	°C	ISO 306/B50
Melting Temperature ³	260	--	°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 - 4.0		hr	
Dew Point - Desiccant Dryer	< -20.0		°C	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	280 - 300		°C	
Mold Temperature	80.0 - 100		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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