

Radilon® A RV300K 990 GRI

Polyamide 66

Radici Plastics

Message:

PA66 30% glass fiber reinforced injection moulding grade, low friction. Heat stabilized. Natural grey colour.

Suitable for parts requiring high stiffness, good mechanical resistance and low friction, along with good heat ageing properties retention. Particularly apt for components requiring improved wear resistance, such as gears, bearings, and cams.

ISO 1043 : PA66-T GF30

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Heat Aging Resistance			
	Good Wear Resistance			
	Heat Stabilized			
	High Stiffness			
	Low Friction			
Uses	Bearings			
	Cams			
	Gears			
RoHS Compliance	RoHS Compliant			
UL File Number	E116324			
Appearance	Grey			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA66-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	7.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10200	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	175	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	9300	--	MPa	ISO 178
Flexural Stress ²	260	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Unnotched Impact Strength (23°C)	85	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/Af
Vicat Softening Temperature	240	--	°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	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	280 to 300		°C	
Mold Temperature	80.0 to 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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