

Radilon® A RV300FC 100 NAT 4792

Polyamide 66

Radici Plastics

Message:

PA66 30% glass fiber reinforced injection moulding grade. Natural colour.

Suitable for parts requiring high stiffness and good mechanical resistance.

Appropriate for foodstuff contact.

ISO 1043 : PA66 GF30

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Food Contact Acceptable		
		High Stiffness		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66 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	9400	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	175	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.8	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	8400	--	MPa	ISO 178
Flexural Stress ²	270	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	88	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/Af
Vicat Softening Temperature	245	--	°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 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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