

Radilon® CA RV300L 100 NAT

Polyamide 66/6 Copolymer

Radici Plastics

Message:

PA66/6 copolymer injection moulding grade, 30% glass Fiber reinforced. Natural colour.

Suitable for parts requiring high stiffness and good mechanical resistance. Good surface aspect and easier flow.

ISO 1043 : PA66/6 GF30

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Copolymer		
		Good Flow		
		Good Surface Finish		
		High Stiffness		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66/6 GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	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	9500	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	170	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	4.1	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	7600	--	MPa	ISO 178
Flexural Stress ²	250	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	
23°C	14	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	--	kJ/m ²	
23°C	95	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	235	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/Af
Vicat Softening Temperature	225	--	°C	ISO 306/B50
Melting Temperature ³	245	--	°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	550	--	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	270 to 290		°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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