

Radilon® A ERV3808 100 NAT

Polyamide 66

Radici Plastics

Message:

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

Suitable for parts requiring improved impact strength along with high stiffness and mechanical reinforcement.

ISO 1043 : PA66-I GF30

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Features	Good Impact Resistance			
	Good Stiffness			
	Good Toughness			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA66-I 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	5.6	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8400	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	125	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	7000	--	MPa	ISO 178
Flexural Stress ²	190	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	--	kJ/m ²	
23°C	18	--	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	80	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	240	--	°C	ISO 75-2/Bf

1.8 MPa, Unannealed	225	--	°C	ISO 75-2/Af
Vicat Softening Temperature	230	--	°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
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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