

Radilon® A RV150 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 15% glass fiber reinforced injection moulding grade. Natural colour.

Suitable for parts requiring improved stiffness.

ISO 1043 : PA66 GF15

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		Good Stiffness		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66 GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.21	--	g/cm ³	ISO 1183
Molding Shrinkage ¹				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.60	--	%	
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	7.9	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5800	--	MPa	ISO 527-2/1A/1
Tensile Stress				
Yield	--	85.0	MPa	ISO 527-2/1A/50
Break	120	--	MPa	ISO 527-2/1A/5
Tensile Strain				
Yield	--	5.0	%	ISO 527-2/1A/50
Break	2.7	--	%	ISO 527-2/1A/5
Nominal Tensile Strain at Break	--	15	%	ISO 527-2/1A/50
Flexural Modulus ²	5300	--	MPa	ISO 178
Flexural Stress ³	190	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	6.5	9.0	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	32	--	kJ/m ²	
23°C	39	75	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	245	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	220	--	°C	ISO 75-2/ Af
Vicat Softening Temperature	245	--	°C	ISO 306/B50
Melting Temperature ⁴	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			
NOTE				
1.	295°C Melt Temp / 80°C Mold Temp / 30 Mpa Cavity press			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10°C/min			

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