

Radilon® A HSXW 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 injection moulding grade. Toughened, heat stabilized. Natural colour.

Suitable for parts requiring improved impact strength and excellent heat ageing resistance.

ISO 1043 : PA66-IT

General Information				
Additive	Heat Stabilizer			
Features	Good Heat Aging Resistance			
	Good Impact Resistance			
	Good Toughness			
	Heat Stabilized			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA66-IT			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	7.6	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2800	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	75.0	--	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.5	--	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	25	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	2830	--	MPa	ISO 178
Flexural Stress ²	100	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.5	15	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	--	°C	ISO 75-2/Af
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
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 30	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°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	70.0 to 90.0		°C	
Injection Rate	Moderate			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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