

Radilon® A 38 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 high viscosity extrusion grade. Natural colour.

Suitable for extrusion of tubes, profiles, bars, rods and sheets. Also suitable for injection moulding of high thickness items.

ISO 1043 : PA66

General Information				
Features	High Viscosity			
Uses	Profiles			
	Rods			
	Sheet			
	Thick-walled Parts			
	Tubing			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Extrusion			
	Injection Molding			
	Profile Extrusion			
	Sheet Extrusion			
Resin ID (ISO 1043)	PA66			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	8.4	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.1	--	%	
Viscosity Number (H ₂ SO ₄ (Sulphuric Acid))	240	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3250	1600	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	90.0	60.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	25	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	50	> 50	%	ISO 527-2/1A/50
Flexural Modulus ¹	2980	--	MPa	ISO 178
Flexural Stress ²	105	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	8.0	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	195	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/ Af
Vicat Softening Temperature	240	--	°C	ISO 306/B50
Melting Temperature	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	270 to 290		°C	
Mold Temperature	70.0 to 90.0		°C	
Injection Rate	Moderate			
Extrusion	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
Melt Temperature	270 to 290		°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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