

Radilon® A 42 100 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				
UL YellowCard	E148796-101473248	E195505-101510653		
Features	High Viscosity			
Uses	Profiles Rods Sheet Thick-walled Parts Tubing			
RoHS Compliance	RoHS Compliant			
UL File Number	E116324			
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))	260	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3250	1600	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	85.0	60.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.5	25	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	50	> 50	%	ISO 527-2/1A/50
Flexural Modulus ¹	2900	--	MPa	ISO 178

Flexural Stress ²	110	--	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	7.0	7.5	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 (DSC)	260	--	°C	ISO 3146
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	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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