

Radilon® A FL2 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 injection moulding grade with PTFE. Natural colour

Suitable for parts requiring a low friction coefficient and excellent wear properties. Typical applications include sliding blocks and bushings.

ISO 1043 : PA66 S20

General Information				
Features		Good Wear Resistance		
		Low Friction		
Uses		Bushings		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66 S20		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	70.0	--	MPa	ISO 527-2/1A/50
Nominal Tensile Strain at Break	10	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	2800	--	MPa	ISO 178
Flexural Stress ²	105	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	185	--	°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
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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