

Radilon® A LX 14080 2296

Polyamide 66

Radici Plastics

Message:

PA66 medium-high viscosity injection moulding grade. Natural colour.

Suitable for moulding parts with high thickness requiring good impact resistance. Typically used for railway applications, such as rail insulators .

ISO 1043 : PA66

General Information				
Features		Good Impact Resistance		
		Medium-high Viscosity		
Uses		Industrial Applications		
		Thick-walled Parts		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Extrusion		
		Injection Molding		
Resin ID (ISO 1043)		PA66		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Viscosity Number (H2SO4 (Sulphuric Acid))	195	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	80.0	--	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	--	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	50	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	2950	--	MPa	ISO 178
Flexural Stress ²	115	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.5	--	kJ/m ²	
23°C	6.5	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)				
	70.0	--	°C	ISO 75-2/Af

Vicat Softening Temperature	240	--	°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)	750	--	°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			
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			
3.	10°C/min			

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