

Radilon® A LX 14080K 100 M NAT

Polyamide 66

Radici Plastics

Message:

PA66 medium-high viscosity injection moulding and extrusion grade. Heat stabilized. 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-T

General Information				
Features		Good Impact Resistance		
		Medium-high Viscosity		
Uses		Insulation		
		Thick-walled Parts		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Extrusion		
		Injection Molding		
Resin ID (ISO 1043)		PA66-T		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Viscosity Number (H ₂ SO ₄ (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)	4.5	--	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	50	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	2980	--	MPa	ISO 178
Flexural Stress ²	115	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	--	kJ/m ²	ISO 179/1eA
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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