Radilon® A ERV1906LK 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 13% glass fiber reinforced injection moulding grade. Toughened, lubricated and heat stabilized. Natural colour.
Suitable for parts requiring improved impact strength along with enhanced stiffness.
A typical application are anti-vibration rings.
ISO 1043 : PA66-IT GF13

General Information	
Filler / Reinforcement	Glass Fiber,13% Filler by Weight
Additive	Heat Stabilizer Lubricant
Features	Good Impact Resistance Good Stiffness Heat Stabilized
RoHS Compliance	RoHS Compliant
Appearance	Natural Color
Processing Method	Injection Molding
Resin ID (ISO 1043)	PA66-IT GF13

Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	7.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.9	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5000	4200	MPa	ISO 527-2/1A/1
Tensile Stress				ISO 527-2/1A/5
Yield	--	75.0	MPa	
Break	100	--	MPa	
Tensile Strain				ISO 527-2/1A/5
Yield	--	8.0	%	
Break	4.0	--	%	
Nominal Tensile Strain at Break	--	17	%	ISO 527-2/1A/5
Flexural Modulus [1]	4300	--	MPa	ISO 178
Flexural Stress [2]	150	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.8	5.0	kJ/m²	
23°C	12	15	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	42	kJ/m²	
23°C	75	100	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	230	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	175	--	°C	ISO 75-2/Af
Vicat Softening Temperature	235	--	°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	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 10	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	700	--	°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	280 to 300		°C	
Mold Temperature	80.0 to 100		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

Recommended distributors for this material

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