

Radilon® A ERV130LK 333 NER 5025

Polyamide 66

Radici Plastics

Message:

PA66 13% glass fiber reinforced injection moulding grade. Toughened, lubricated and heat stabilized. Black 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		
		Good Toughness		
		Heat Stabilized		
		Lubricated		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66-IT GF13		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.20	--	g/cm ³	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	4400	--	MPa	ISO 178

Flexural Stress ²	155	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	90	kJ/m ²	ISO 179/1eU
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 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	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			
3.	10°C/min			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

