

Radilon® A BF 990 GY

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 injection moulding grade. Low friction. Natural grey colour.

Suitable for parts and components requiring low friction and improved wear resistance such as gears, bearings, and cams.

General

Features	• Low Friction	• Wear Resistant	
Uses	• Bearings	• Cams	• Gears
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Grey		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66		

Properties¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	493000	--	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	12300	--	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	--	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	7.0	--	%	ISO 527-2/1A/50
Flexural Modulus ²	479000	--	psi	ISO 178
Flexural Stress ²	17400	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	2.4	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Bf
66 psi, Unannealed	455	--	°F	
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	203	--	°F	
Vicat Softening Temperature	464	--	°F	ISO 306/B50
Melting Temperature ³	500	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+11	ohms·m	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94

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Flammability	Dry	Conditioned	Unit	Test Method
Glow Wire Flammability Index 0.08 in	1380	--	°F	IEC 60695-2-12

Processing Information

Injection	Dry	Unit
Drying Temperature - Desiccant Dryer	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	158 to 194	°F
Injection Rate	Moderate	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min