

Radilon® S EGR1404 990 GRI

Polyamide 6

Radici Plastics

Message:

PA6 injection moulding grade. Very low friction. Natural grey colour.

Suitable for parts and components requiring low friction and improved wear resistance such as gears, bearings, and cams. Typical application: interchangeable sectors for pulleys.

ISO 1043 : PA6-I

General Information				
Features	Low Friction			
Uses	Bearings			
	Cams			
	Gears			
	Pulleys			
RoHS Compliance	RoHS Compliant			
Appearance	Grey			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6-I			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.17	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	65.0	--	MPa	ISO 527-2/1A/50
Nominal Tensile Strain at Break	17	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	2800	--	MPa	ISO 178
Flexural Stress ²	100	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	85.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	180	--	°C	ISO 306/B50
Melting Temperature ³	220	--	°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
Flammability	Dry	Conditioned	Unit	Test Method

Burning Rate	< 30	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°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	250 to 280		°C	
Mold Temperature	70.0 to 80.0		°C	
Injection Rate	Moderate			

NOTE

1. 2.0 mm/min
2. 2.0 mm/min
3. 10°C/min

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