

Kuraray Genestar[®],ç G 1350A-M42 Nylon, 35% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

35% Glass reinforced injection grade. This grade was developed specifically for improved performance in a 50/50 ethylene glycol and water environment. Main Features: Hydrolysis resistance Heat resistance Chemical resistance Examples of applications: Thermostat housings Water inlets, outlets, and valves

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-G1350A-M42-Nylon-35-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Water Absorption	0.19 %	0.19 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527-1/-2
Flexural Strength	285 MPa	41300 psi	ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	ISO 178
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 Åµm/m-Å°C	10.6 Åµin/in-Å°F	ASTM D696
CTE, linear, Transverse to Flow	39.0 Åµm/m-Å°C	21.7 Åµin/in-Å°F	ASTM D696
Melting Point	300 Å°C	572 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	270 Å°C	518 Å°F	ISO 75-1/-2
Glass Transition Temp, Tg	125 Å°C	257 Å°F	10Å°C/min; ISO 11357-1/-2

Descriptive Properties	Value	Comments
Additives	Release Agent	
Applications	Automotive	
	General Purpose	
Chemical Resistance	Acid Resistance	
	Alkali Resistance	
	Environmental Stress Crack Resistance	
	General Chemical Resistance	
	Grease Resistance	
	Hydrolytically Stable	
	Oil Resistance	
	Solvent Resistance	
Delivery Form	Black	
Other Features	Barrier Properties	
	Creep Resistance	
	High Crystallinity	
	Thermal Stability	
	Weldable	
Regional Availability	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	
Special Characteristics	Heat Stabilized or Stable to Heat	

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