

Kuraray Genestar[®],ç GX1500A-M41 Nylon, 50% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

50% Glass reinforced injection grade. This grade was developed specifically for high mechanical properties for TD direction. Main

Features: Low warpage High mechanical properties for TD direction Examples of applications: Structural parts and housing Steel alternating parts

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-GX1500A-M41-Nylon-50-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Water Absorption	0.13 %	0.13 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	250 MPa	36300 psi	ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	16.7 GPa	2420 ksi	ISO 527-1/-2
Flexural Strength	370 MPa	53700 psi	ISO 178
Flexural Modulus	15.5 GPa	2250 ksi	ISO 178
Charpy Impact, Notched	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 Åµm/m-Å°C	8.33 Åµin/in-Å°F	ASTM D696
CTE, linear, Transverse to Flow	24.0 Åµm/m-Å°C	13.3 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)	280 Å°C	536 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	
	Low Warpage	
	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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