

Kuraray Genestar®, N1001A-M41 Nylon

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Low friction unreinforced injection grade. Main Features: Low friction coefficient High impact strength Examples of applications are: Friction and wear application Gear and wheel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-N1001A-M41-Nylon.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Water Absorption	0.25 %	0.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	12 %	12 %	ISO 527-1/-2
Elongation at Yield	7.0 %	7.0 %	ISO 527-1/-2
Tensile Modulus	2.42 GPa	351 ksi	ISO 527-1/-2
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
Coefficient of Friction	0.15	0.15	ISO JIS K7218-A
K Factor (Wear Factor)	20	20	[mg]
Limiting Pressure Velocity	0.980 MPa-m/sec	28000 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 Åµm/m-Å°C	36.1 Åµin/in-Å°F	ASTM D696
CTE, linear, Transverse to Flow	68.0 Åµm/m-Å°C	37.8 Åµin/in-Å°F	ASTM D696
Melting Point	300 Å°C	572 Å°F	10 Å°C/min; ISO 11357-1/-3

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	125 Â°C	257 Â°F	10Â°C/min; ISO 11357-1/-2

Descriptive Properties	Value	Comments
Additives	Lubricants	
	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	
	Natural Color	
Other Features	Barrier Properties	
	Creep Resistance	
	High Crystallinity	
	Low Coefficient of Friction	
	Thermal Stability	
	Weldable	
Processing	Injection Molding	
Regional Availability	Asia Pacific	
	Europe	
	Near East/Africa	

Descriptive Properties	North America Value	Comments
	South and Central America	
Special Characteristics	Heat Stabilized or Stable to Heat	
	High Impact or Impact Modified	

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