

Kuraray Genestar[®],ç N1001D-U83/02 Nylon

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Standard unreinforced extrusion grade. Main Features:Outstanding fuel barrierHeat resistanceExample of applications:Multi-layered fuel tube

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-N1001D-U8302-Nylon.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Water Absorption	0.25 %	0.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527-1/-2
Elongation at Break	15 %	15 %	ISO 527-1/-2
Elongation at Yield	7.0 %	7.0 %	ISO 527-1/-2
Tensile Modulus	1.66 GPa	241 ksi	ISO 527-1/-2
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	264 °C	507 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ISO 75-1/-2
Glass Transition Temp, Tg			10°C/min; ISO 11357-1/-2

Thermal Properties	125 Å°C Metric	257 Å°F English	Comments
Descriptive Properties	Value		Comments
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		
	Melt Strength		
	Thermal Stability		
	Weldable		
Processing	Blow Molding		
	Film Extrusion		
	Injection Molding		
	Pipe/Tube Extrusion		
	Thermoforming		
Regional Availability	Asia Pacific		
	Europe		
	Near East/Africa		
	North America		
	South and Central America		
Special Characteristics	Heat Stabilized or Stable to Heat		

Descriptive Properties	Value	Comments
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High Impact or Impact Modified

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China