

BASF Ultramid® TG7S 35% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

Ultramid TG7S is a 34% glass reinforced, heat stabilized, impact modified PA6 injection molding grade. It was developed to meet the demanding requirements of the first North American seat cushion pan/frame to be made of an engineering plastic as opposed to metal.

TG7S exhibits improved strength, stiffness and notched impact properties over Ultramid 8333G HI.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-TG7S-35-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	0.2 in/min; ASTM Test
	77.0 MPa	11200 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	77.0 MPa	11200 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	97.0 MPa	14100 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	97.0 MPa	14100 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Strength, Ultimate	251 MPa	36400 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.3 %	3.3 %	5mm/min; ISO 527
	3.3 %	3.3 %	
	3.9 %	3.9 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	6.7 %	6.7 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	6.7 %	6.7 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	7.0 %	7.0 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	7.0 %	7.0 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Flexural Strength	260 MPa	37700 psi	ASTM Test
Flexural Modulus	8.40 GPa	1220 ksi	ISO Data
	8.97 GPa	1300 ksi	ASTM Test
Izod Impact, Notched	2.25 J/cm	4.22 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	26.0 kJ/m²	12.4 ft-lb/in²	ISO Test
	18.0 kJ/m²	8.57 ft-lb/in²	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	2.30 J/cm²	10.9 ft-lb/in²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	ISO 75
	212 °C	414 °F	ASTM Test

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Impact Modified	Yes	

Primary Processing Technique Descriptive Properties	Injection Molding Value	Comments
--	----------------------------	----------

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