

BASF Ultramid® 8272G HS BK-102 12% Glass Filled PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled

Material Notes:

Ultramid 8272G HS BK-102 is a 12% glass fiber reinforced, black pigmented, thermally modified, nylon 6 blow molding compound offering an excellent balance of engineering properties combined with the melt strength ideally suited for blow molding and other applications requiring ultra high melt viscosity. It exhibits improved strength, stiffness and creep resistance compare to standard blow molding grades. Outstanding permeability and chemical resistance to oils, hydrocarbons and most solvents are other advantages along with excellent stiffness ad the ability to fabricate complex shapes for cost effective metal replacements.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8272G-HS-BK-102-12-Glass-Filled-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	dry; ISO 1183
Water Absorption	1.4 %	1.4 %	24 hour; ISO Test
	8.3 %	8.3 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	beginning dry (23°C/50% R.H.); ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	0.2 in/min; ASTM Test
	25.0 MPa	3630 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	25.0 MPa	3630 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	40.0 MPa	5800 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	40.0 MPa	5800 psi	ISO Data
@Temperature 80.0 °C	@Temperature 176 °F		
110 MPa	110 MPa	16000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
110 MPa	110 MPa	16000 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Tensile Strength, Ultimate Mechanical Properties	60.0 MPa Metric	8700 psi English	5mm/min; ISO 527 Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	50mm/min; ISO 527
	65.0 MPa	9430 psi	2 in/min; ASTM Test
Elongation at Break	20 %	20 %	50mm/min, Nominal strain; ISO 527
	30 %	30 %	2 in/min; ASTM Test
	2.0 %	2.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.0 %	2.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	20 %	20 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	20 %	20 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	30 %	30 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	30 %	30 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
Elongation at Yield	15 %	15 %	50mm/min; ISO 527
	15 %	15 %	2 in/min; ASTM Test
Tensile Modulus	3.10 GPa	450 ksi	1mm/min; ISO 527
	1.50 GPa	218 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	1.90 GPa	276 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	6.40 GPa	928 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	80.0 MPa	11600 psi	ASTM Test
	265 MPa	38400 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.97 GPa	286 ksi	ASTM Test

Mechanical Properties	Metric /cm	English -lb/in	Comments
Izod Impact, Notched	@Temperature -40.0 °C	@Temperature -40.0 °F	ASTM Test
	1.55 J/cm	2.90 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093

Processing Properties	Metric	English	Comments
Melt Temperature	275 °C	527 °F	Injection molding
Mold Temperature	95.0 °C	203 °F	Injection molding

Descriptive Properties	Value	Comments
Color	BK-102	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Blow Molding	
Processing	Blow molding	
	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

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