

BASF Ultramid® HPN 9362 40% Mineral Filled PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Mineral Filled

Material Notes:

Ultramid HPN 9362 is a 40% mineral reinforced, impact modified nylon 6 injection molding compound. It is one of the High Productivity Nylon series having improved surface appearance while reducing cycle time. It possesses excellent balance of strength, stiffness and toughness combined with a high level of drop weight impact, excellent processability and chemical resistance to greases, oils and hydrocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-HPN-9362-40-Mineral-Filled-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	dry; ISO 1183
Water Absorption	4.9 %	4.9 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	1.4 %	1.4 %	beginning dry (23°C/50% R.H.); ISO 62
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	0.2 in/min; ASTM Test
	20.0 MPa	2900 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	25.0 MPa	3630 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	25.0 MPa	3630 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	95.0 MPa	13800 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	95.0 MPa	13800 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	45.0 MPa	6530 psi	2 in/min; ASTM Test
	45.0 MPa	6530 psi	50mm/min; ISO 527

Mechanical Properties	20.0 MPa Metric	2900 psi English	Comments ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 MPa	2900 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	25.0 MPa	3630 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	25.0 MPa	3630 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	90.0 MPa	13100 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	90.0 MPa	13100 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	30 %	30 %	50mm/min, Nominal strain; ISO 527
	30 %	30 %	2 in/min; ASTM Test
	30 %	30 %	0.2 in/min; ASTM Test
	9.0 %	9.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	9.0 %	9.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	25 %	25 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	25 %	25 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	40 %	40 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	40 %	40 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
Elongation at Yield	27 %	27 %	2 in/min; ASTM Test
	27 %	27 %	50mm/min; ISO 527
	5.1 %	5.1 %	ISO Data

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	5.1 %	5.1 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	25 %	25 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	25 %	25 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	30 %	30 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	30 %	30 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	2.90 GPa	421 ksi	1mm/min; ISO 527
	0.600 GPa	87.0 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	0.860 GPa	125 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	6.60 GPa	957 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	50.0 MPa	7250 psi	ASTM Test
	25.0 MPa	3630 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	30.0 MPa	4350 psi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	35.0 MPa	5080 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
	155 MPa	22500 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.56 GPa	226 ksi	ASTM Test
	0.740 GPa	107 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	0.850 GPa	123 ksi	

Mechanical Properties	Metric @ Temperature 93.0 °C	English @ Temperature 199 °F	ASTM Test Comments
	0.970 GPa	141 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	

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

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	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
UL.UL-C	Yes	

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