

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

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-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-HPN-9362-40-Mineral-Filled-PA6-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ISO 1183
Water Absorption	4.9 %	4.9 %	ISO 62
Moisture Absorption at Equilibrium	1.4 %	1.4 %	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
Hardness, Rockwell R	119	119	ASTM Test
Tensile Strength at Break	62.0 MPa	8990 psi	0.2 in/min; ASTM Test
Tensile Strength, Yield	64.0 MPa	9280 psi	2 in/min; ASTM Test
	65.0 MPa	9430 psi	50mm/min; ISO 527
Elongation at Break	15 %	15 %	50mm/min, Nominal strain; ISO 527
	15 %	15 %	2 in/min; ASTM Test
	15 %	15 %	0.2 in/min; ASTM Test
Elongation at Yield	3.0 %	3.0 %	50mm/min; ISO 527
	3.0 %	3.0 %	2 in/min; ASTM Test
Tensile Modulus	4.33 GPa	628 ksi	1mm/min; ISO 527
Flexural Strength	109 MPa	15800 psi	ASTM Test
	30.0 MPa	4350 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	30.0 MPa	4350 psi	ASTM Test

Mechanical Properties	@Temperature 93.0 °C Metric	@Temperature 199 °F English	Comments
	45.0 MPa	6530 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
	180 MPa	26100 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	4.00 GPa	580 ksi	ASTM Test
	0.750 GPa	109 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	0.770 GPa	112 ksi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	1.25 GPa	181 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
Izod Impact, Notched	0.860 J/cm	1.61 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179
	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 µm/m-°C	12.8 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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

Electrical Properties	Metric	English	Comments
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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