

## BASF Ultramid® B3S HP PA6 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Ultramid B3S HP is a easy flowing, finely crystalline, injection molding PA6 for fast processing

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-B3S-HP-PA6-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-B3S-HP-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ISO 1183
Water Absorption	9.0 - 10 %	9.0 - 10 %	ISO 62
Moisture Absorption at Equilibrium	2.6 - 3.4 %	2.6 - 3.4 %	(23°C/50% R.H.); ISO 62
Viscosity Test	145 cm <sup>3</sup> /g	145 cm <sup>3</sup> /g	Viscosity number; ISO 307
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	198 g/10 min @Load 5.00 kg, Temperature 275 °C	198 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	50mm/min; ISO 527
Elongation at Yield	20 %	20 %	50mm/min; ISO 527
Modulus of Elasticity	1.20 GPa	174 ksi	ISO 527
Izod Impact, Notched (ISO)	NB	NB	ISO 180/A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	1100 MPa @Strain 0.500 %	160000 psi @Strain 0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.70 J/g-°C	0.406 BTU/lb-°F	
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft <sup>2</sup> -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
Maximum Service Temperature, Air	87.0 °C	189 °F	for 50% loss of tensile strength after

Thermal Properties	Metric	English	20,000 hr Comments
	97.0 °C	207 °F	for 50% loss of tensile strength after 5,000 hr
	180 °C	356 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	7.0 @Frequency 1.00e+6 Hz	7.0 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.30 @Frequency 1.00e+6 Hz	0.30 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	Injection-molding/Extrusion
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	Injection-molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	RG-NAFTA	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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