

BASF Ultramid® 8267G HS BK-106 15/25% Glass/Mineral Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Ultramid 8267G HS BK-106 is a heat stabilized, weather resistant, 40% mineral and glass fiber reinforced PA6 injection molding compound with improved UV resistance and sink mark resistance. The combination of mineral and glass fibers result in a high performance, low warp and cost effective engineering thermoplastic. It exhibits high strength, good UV resistance, rigidity and good heat distortion temperatures. It has a relatively high resistance to creep under load. The heat stabilizer system extends its retention of properties at elevated temperatures. It has good chemical resistance to greases, oils and hydrocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8267G-HS-BK-106-1525-GlassMineral-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.289 g/cc	0.04657 lb/in ³	Melt; ISO 1183
	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	24 hour; ISO Test
	5.7 %	5.7 %	ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM Test
Tensile Strength at Break	125 MPa	18100 psi	0.2 in/min; ASTM Test
	51.0 MPa	7400 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	51.0 MPa	7400 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	59.0 MPa	8560 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	59.0 MPa	8560 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	178 MPa	25800 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	178 MPa Metric	25800 psi English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Ultimate	115 MPa	16700 psi	5mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5mm/min; ISO 527
	2.0 %	2.0 %	0.2 in/min; ASTM Test
	3.0 %	3.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.0 %	3.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	11 %	11 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	11 %	11 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	13 %	13 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	13 %	13 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Modulus	9.20 GPa	1330 ksi	1mm/min; ISO 527
	2.62 GPa	380 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	3.09 GPa	448 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	10.79 GPa	1565 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	178 MPa	25800 psi	ISO Data
	200 MPa	29000 psi	ASTM Test
Flexural Modulus	7.20 GPa	1040 ksi	ISO Data
	7.58 GPa	1100 ksi	ASTM Test
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	4.60 J/cm ²	21.9 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 µm/m-°C	17.2 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Specific Heat Capacity	2.028 J/g-°C	0.4847 BTU/lb-°F	Melt
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	Melt
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75
	202 °C	396 °F	ASTM Test
Flammability, UL94	HB	HB	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Color	BK-106	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	

Descriptive Properties	Value	Comments
	X	
UL.UL-C	Yes	

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