

BASF Ultramid® 8202 HS BK-102 PA6 (Dry)

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

Material Notes:

Ultramid 8202 HS BK-102 is an unfilled, heat stabilized, pigmented black, low viscosity, general purpose injection molding PA6 exhibiting excellent fluidity for filling thin sections. It possesses the combination of strength, stiffness and toughness properties as well as excellent chemical, thermal and abrasion resistance. The heat stabilizer system extends its retention of properties at elevated temperatures.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8202-HS-BK-102-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	1.6 %	1.6 %	24 hour; ISO Test
	9.5 %	9.5 %	ISO 62
Moisture Absorption at Equilibrium	2.7 %	2.7 %	23°C/50% R.H.; ISO 62
Relative Viscosity	2.6 cP	2.6 cP	ISO Test; 96 % SAV
Viscosity Measurement	48	48	Formic Acid
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM Test
Tensile Strength, Yield	85.0 MPa	12300 psi	50mm/min; ISO 527
	85.0 MPa	12300 psi	2 in/min; ASTM Test
Elongation at Break	25 %	25 %	50mm/min, Nominal strain; ISO 527
	50 %	50 %	2 in/min; ASTM Test
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527
	4.0 %	4.0 %	2 in/min; ASTM Test
Tensile Modulus	3.10 GPa	450 ksi	1mm/min; ISO 527
Flexural Strength	90.0 MPa	13100 psi	ISO Data
	108 MPa	15700 psi	ASTM Test
Flexural Modulus	2.65 GPa	384 ksi	ISO Data
	2.83 GPa	410 ksi	ASTM Test

Mechanical Properties	MetricJ/cm	Englishlb/in	Comments
Izod Impact, Notched	@Thickness 3.17 mm	@Thickness 0.125 in	ASTM Test
Izod Impact, Notched (ISO)	5.50 kJ/m²	2.62 ft-lb/in²	ISO Test
	4.00 kJ/m²	1.90 ft-lb/in²	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.300 J/cm²	1.43 ft-lb/in²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	83.0 µm/m-°C	46.1 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 0.46 MPa (66 psi)	178 °C	352 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75
	65.0 °C	149 °F	ASTM Test
Flammability, UL94	V-2	V-2	
	@Thickness 0.700 mm	@Thickness 0.0276 in	
	V-2	V-2	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Color	BK-102	
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
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