

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

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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	dry; ISO 1183
Water Absorption	1.6 %	1.6 %	24 hour; ISO Test
	9.5 %	9.5 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.7 %	2.7 %	beginning dry (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
Tensile Strength, Yield	36.0 MPa	5220 psi	50mm/min; ISO 527
	36.0 MPa	5220 psi	2 in/min; ASTM Test
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
	>= 100 %	>= 100 %	2 in/min; ASTM Test
Elongation at Yield	16 %	16 %	50mm/min; ISO 527
	16 %	16 %	2 in/min; ASTM Test
Tensile Modulus	0.970 GPa	141 ksi	1mm/min; ISO 527
Flexural Strength	25.0 MPa	3630 psi	ISO Data
	35.0 MPa	5080 psi	ASTM Test
Flexural Modulus	0.770 GPa	112 ksi	ISO Data

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

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	
UL.UL-C	Yes	

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