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

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

Material Notes:

Ultramid 8202C HS BK-102 is a heat stabilized, low viscosity, pigmented black, PA6, injection molding homopolymer possessing a modified crystalline structure for increased property performance and faster cycles. It is also available in non-heat stabilized (Ultramid 8202C).

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-8202C-HS-BK-102-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	ISO 1183
Water Absorption	1.6 %	1.6 %	24 hour; ISO Test
	9.3 %	9.3 %	ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	23°C/50% R.H.; ISO 62
Relative Viscosity	2.6 cP	2.6 cP	ISO Test; 96 % SAV
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM Test
Tensile Strength, Yield	85.0 MPa	12300 psi	50mm/min; ISO 527
Elongation at Break	10 %	10 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527
Tensile Modulus	3.50 GPa	508 ksi	1mm/min; ISO 527
Flexural Strength	95.0 MPa	13800 psi	ISO Data
Flexural Modulus	2.80 GPa	406 ksi	ISO Data
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	81.0 µm/m-°C @Temperature -30.0 - 30.0 °C	45.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM Test
Melting Point	220 °C	428 °F	10 K/min

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75
Flammability, UL94	V-2 @Thickness 0.700 mm	V-2 @Thickness 0.0276 in	
	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Color	BK-102	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
UL.UL-C	Yes	

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