

BASF Ultramid® 8351 HS BK 106 PA6 (Dry)

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

Material Notes:

Description: Ultramid 8351 HS BK-106 is a heat stabilized, pigmented black, impact modified type 6 nylon graft copolymer developed for injection molding applications requiring a high level of toughness combined with a moderate flexibility and faster cycles. Excellent thermal and chemical resistance properties provided by the nylon backbone. It demonstrates the highest impact performance within the Ultramid copolymer product line while maintaining an excellent balance of strength and stiffness. Excellent chemical resistance to greases, oils and hydrocarbons. Applications: Storage bins, spray gun and power tool handles, trim clips and fasteners, wall anchors and automotive roof clips rack components. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8351-HS-BK-106-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	1.1 %	1.1 %	24 Hours; ASTM D570
	1.9 %	1.9 %	50% RH; ASTM D570
	6.7 %	6.7 %	Saturation; ASTM D570
Linear Mold Shrinkage	0.03556 cm/cm	0.03556 in/in	1/8" bar

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	78	78	ASTM D785
Tensile Strength, Yield	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	1.655 GPa	240.0 ksi	ASTM D 790
Izod Impact, Notched (ISO)	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	106 µm/m-°C	58.9 µin/in-°F	ASTM E831
Melting Point	220 °C	428 °F	ASTM D3418

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 270 °C	464 - 518 °F	

Processing Properties	Metric	English	Comments
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Color	BK 106	
Commercial Status	North America	

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