

BASF Ultramid® 8351 HS BK 102 PA6 (Dry)

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

Material Notes:

Description: Ultramid 8351 HS BK-102 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: Ultramid 8351 HS BK-102 is generally recommended for applications such as 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-102-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
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	ASTM D790
Izod Impact, Notched (ISO)	NB	NB	ASTM D256
Dart Drop, Total Energy	285 J	210 ft-lb	BASF

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

Thermal Properties Deflection Temperature at 1.8 MPa (150 psi)	55.0 °C Metric	131 °F English	ASTM D648 Comments
UL RTI, Electrical	105 °C @Thickness 1.50 mm	221 °F @Thickness 0.0591 in	746B
UL RTI, Mechanical with Impact	105 °C @Thickness 1.50 mm	221 °F @Thickness 0.0591 in	746B
UL RTI, Mechanical without Impact	105 °C @Thickness 1.50 mm	221 °F @Thickness 0.0591 in	746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 270 °C	464 - 518 °F	
Mold Temperature	80.0 - 95.0 °C	176 - 203 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Color	BK 102	
Commercial Status	North America	

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