### **Product Information**

# Ultramid® 8351 HS BK-102 Polyamide 6



## **Product 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.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.07	
Mold Shrinkage (1/8" bar, in/in)		0.014	
Moisture, %	D-570		
(24 Hour)		1.1	
(50% RH)		1.9	
(Saturation)		6.7	
MECHANICAL	<b>ASTM Test Method</b>	Dry	Conditioned
Tensile Strength, Yield, MPa (psi)	D-638		
23C (73F)		55 (7,970)	-
Elongation, Yield, %	D-638		
23C (73F)		5	-
Elongation, Break, %	D-638		
23C (73F)		>100	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		1,690 (245,000)	-
Flexural Strength, MPa (psi)	D-790		
23C (73F)		66 (9,570)	-
Rockwell Hardness, R Scale	D-785	78	-
IMPACT	ASTM Test Method	Dry	Conditioned
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
23C (73F)		NB	-
Drop Weight Impact, ft-lbs, 23C	BASF Drop Weight Impact Test	210	-
THERMAL	<b>ASTM Test Method</b>	Dry	Conditioned
Melting Point, C(F)	D-3418	220 (428)	-
Heat Deflection @ 264 psi (1.8 MPa) C(F)	D-648	55 (131)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	1.06 X10-4	-
UL RATINGS	<b>UL Test Method</b>	Property Value	
Flammability Rating, 1.5mm	UL94	HE	3
Relative Temperature Index, 1.5mm	UL746B		





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Mechanical w/o Impact, C 105

Mechanical w/ Impact, C 105

Electrical, C 105

ELECTRICAL	ASTM Test Method	Dry	Conditioned
Volume Resistivity, 1.5 mm	D-257	>1F13	<u>-</u>



