

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	ISO Test Method	Property Value	
Density, g/cm	1183	1.07	
Moisture, %	62		
(24 Hour)		1.1	
(50% RH)		1.9	
(Saturation)		6.7	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		1,800	-
Tensile stress at yield, MPa	527		
23C		49	-
Tensile strain at yield, %	527		
23C		5	-
Nominal strain at break, %	527		
23C		>50	-
Flexural Strength, MPa	178		
23C		53	-
Flexural Modulus, MPa	178		
23C		1,500	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		N	-
-40C		18	-
Charpy Notched, kJ/m ²	179		
23C		92	-
Charpy Unnotched, kJ/m ²	179		
23C		N	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	49	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Volume Resistivity	IEC 60093	>1E13	-



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UL RATINGS	UL Test Method	Property Value
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, C		105
Mechanical w/ Impact, C		105
Electrical, C		105

