

Ultramid® 8333G HI HS BK-102

Polyamide 6



Product Description

Ultramid 8333G HI HS BK-102 is a 33% glass reinforced, impact modified PA6 injection molding compound pigmented black developed for applications requiring improved dry as molded toughness in combination with a balance of strength, stiffness and excellent moldability/surface aesthetics.

Applications

Ultramid 8333G HI HS BK-102 is generally recommended for application such as front wheel chair wheels, bicycle wheels, power tool housings, chain saw housings, clips and fasteners, hose clamps and window hardware.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.34	
Moisture, %	62		
(24 Hour)		0.9	
(50% RH)		1.5	
(Saturation)		5.5	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		9,100	4,610
Tensile stress at break, MPa	527		
23C		140	90
Tensile strain at break, %	527		
23C		3	6
Flexural Strength, MPa	178		
23C		210	120
Flexural Modulus, MPa	178		
23C		7,500	5,030
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		19	-
-40C		13	-
Charpy Notched, kJ/m ²	179		
23C		18	-
-30C		10	-
Charpy Unnotched, kJ/m ²	179		
23C		71	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	205	-
HDT B, C	75	220	-
UL RATINGS	UL Test Method	Property Value	
Flammability Rating, 1.5mm	UL94	HB	
Relative Temperature Index, 1.5mm	UL746B		



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Mechanical w/o Impact, C	140
Mechanical w/ Impact, C	115
Electrical, C	140

