

Ultramid® 8234G HS BK-102

Polyamide 6

Product Description

Ultramid 8234G HS BK-102 is heat stabilized, pigmented black, 44% glass reinforced PA6 injection molding compound offering the highest level of strength, stiffness, high temperature performance and dimensional stability. Its resistance to creep under load is excellent. It maintains its inherent chemical resistance to greases, oils and hydrocarbons. It is available in natural and black versions. Pigmented and weatherable versions may be offered on a case by case basis.

Applications

Ultramid 8234G HS BK-102 is generally recommended for applications such as consumer power tool housings, cattle ear taggers, luggage frames, fans and pressure regulator housings.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.49	
Moisture, %	62		
(24 Hour)		0.9	
(50% RH)		1.5	
(Saturation)		5.2	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile stress at break, MPa	527		
23C		195	-
Tensile strain at break, %	527		
23C		2	-
Flexural Strength, MPa	178		
23C		290	-
Flexural Modulus, MPa	178		
23C		11,800	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		14	-
Charpy Notched, kJ/m ²	179		
23C		15	-
Charpy Unnotched, kJ/m ²	179		
23C		70	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	210	-
HDT B, C	75	220	-
UL RATINGS	UL Test Method	Property Value	
Flammability Rating, 1.5mm	UL94	HB	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		140	
Mechanical w/ Impact, C		105	
Electrical, C		140	

