

# Ultramid® 8234G HS

## Polyamide 6

### Product Description

Ultramid 8234G HS is a heat stabilized, 44% glass fiber reinforced PA6 injection molding compound offering the highest level of strength, stiffness, high temperature performance and dimensional stability. 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 is generally recommended for applications such as 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 Modulus, MPa	527		
23C		13,500	7,490
Tensile stress at break, MPa	527		
23C		215	145
Tensile strain at break, %	527		
23C		3	6
Flexural Strength, MPa	178		
23C		325	-
Flexural Modulus, MPa	178		
23C		11,400	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m <sup>2</sup>	180		
23C		14	-
-40C		11	-
Charpy Notched, kJ/m <sup>2</sup>	179		
23C		21	-
Charpy Unnotched, kJ/m <sup>2</sup>	179		
23C		90	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	210	-
HDT B, C	75	220	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.32 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C		0.79 X10-4	-
UL RATINGS	UL Test Method	Property Value	



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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

