Product Information

Ultramid® 8234G HS
Polyamide 6

BASF
The Chemical Company

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 fbasis.

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	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.49	
Mold Shrinkage (1/8" bar, in/in)		0.002	
Moisture, %	D-570		
(24 Hour)		0.9	
(50% RH)		1.5	
(Saturation)		5.2	
MECHANICAL	**ASTM Test Method**	**Dry**	**Conditioned**
Tensile Strength, Break, MPa (psi)	D-638		
23C (73F)		230 (33,400)	145 (21,000)
Elongation, Break, %	D-638		
23C (73F)		2	6
Flexural Modulus, MPa (psi)	D-790		
-40C (-40F)		12,300 (1,780,000)	14,700 (2,130,000)
23C (73F)		11,700 (1,700,000)	6,560 (951,000)
65C (149F)		7,000 (1,020,000)	-
121C (250F)		4,830 (700,000)	-
Flexural Strength, MPa (psi)	D-790		
-40C (-40F)		450 (65,200)	410 (59,500)
23C (73F)		352 (51,000)	212 (30,700)
65C (149F)		220 (31,900)	-
90C (194F)		160 (23,200)	-
121C (250F)		138 (20,000)	-
Rockwell Hardness, R Scale	D-785	121	-
IMPACT	**ASTM Test Method**	**Dry**	**Conditioned**
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
23C (73F)		134 (2.5)	-
Drop Weight Impact, ft-lbs, 23C	BASF Drop Weight Impact Test	3	-
THERMAL	**ASTM Test Method**	**Dry**	**Conditioned**
Melting Point, C(F)	D-3418	220 (428)	-
Heat Deflection @ 264 psi (1.8 MPa) C(F)	D-648	212 (413)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.31 X10-4	-

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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		140
Mechanical w/ Impact, C		105
Electrical, C		140