

Ultramid® B3ZG6

Polyamide 6

Product Description

Ultramid B3ZG6 is an impact-modified, 30% glass fiber reinforced injection molding PA6 grade for industrial items having very high impact strength and rigidity.

Applications

Typical applications include automotive airbag housings and half-shells for suitcases.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.33	
Mold Shrinkage (1/8" bar, in/in)		0.003	
Moisture, %	D-570		
(50% RH)		2	
(Saturation)		6.2	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Break, MPa (psi)	D-638		
23C (73F)		138 (20,000)	-
Elongation, Break, %	D-638		
23C (73F)		3.6	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		7,860 (1,140,000)	-
IMPACT	ASTM Test Method	Dry	Conditioned
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
-40C (-40F)		139 (2.6)	-
23C (73F)		192 (3.6)	-
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	207 (404)	-
Heat Deflection @ 66 psi (.45 MPa) C(F)	D-648	220 (428)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.1 X10-4	-
UL RATINGS	UL Test Method	Property Value	
Flammability Rating, 1.5mm	UL94	HB	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		150	
Mechanical w/ Impact, C		115	
Electrical, C		150	
ELECTRICAL	ASTM Test Method	Dry	Conditioned
Volume Resistivity, 1.5 mm	D-257	1E13	1E10

