Product Information

Ultramid® B3ZG6
Polyamide 6

BASF
The Chemical Company

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	ISO Test Method	Property Value	
Density, g/cm	1183	1.33	
Moisture, %	62		
(50% RH)		2	
(Saturation)		6.2	
RHEOLOGICAL	**ISO Test Method**	**Dry**	**Conditioned**
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	25	-
MECHANICAL	**ISO Test Method**	**Dry**	**Conditioned**
Tensile Modulus, MPa	527		
23C		9,000	5,300
Tensile stress at break, MPa	527		
23C		150	100
Tensile strain at break, %	527		
23C		3.6	10
Flexural Strength, MPa	178		
23C		220	-
Flexural Modulus, MPa	178		
23C		7,400	4,700
IMPACT	**ISO Test Method**	**Dry**	**Conditioned**
Izod Notched Impact, kJ/m^2	180		
23C		20	32
Charpy Notched, kJ/m^2	179		
23C		20	35
-30C		15	-
Charpy Unnotched, kJ/m^2	179		
23C		95	110
-30C		90	-
THERMAL	**ISO Test Method**	**Dry**	**Conditioned**
Melting Point, C	3146	220	-
HDT A, C	75	200	-
HDT B, C	75	220	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.23 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C		0.65 X10-4	-
ELECTRICAL	**ISO Test Method**	**Dry**	**Conditioned**

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Volume Resistivity	IEC 60093	1E13	1E10
Dielectric Constant (1 MHz)	IEC 60250	3.8	6.8
Dissipation Factor (1 MHz)	IEC 60250	200	2,000

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