Product Information

Ultramid® B3EG3
Polyamide 6

BASF
The Chemical Company

Product Description

Ultramid B3EG3 is a 15% glass fiber reinforced injection molding PA6 grade for housings with enhanced impact resistance.

Applications

Typical applications include automotive mirror housings and wheels of moutain bikes.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.23	
Moisture, %	62		
(50% RH)		2.3	
(Saturation)		7.7	
RHEOLOGICAL	**ISO Test Method**	**Dry**	**Conditioned**
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	75	-
MECHANICAL	**ISO Test Method**	**Dry**	**Conditioned**
Tensile Modulus, MPa	527		
23C		5,800	3,500
Tensile stress at break, MPa	527		
23C		130	70
Tensile strain at break, %	527		
23C		3.5	15
Flexural Modulus, MPa	178		
23C		5,200	2,500
IMPACT	**ISO Test Method**	**Dry**	**Conditioned**
Izod Notched Impact, kJ/m^2	180		
23C		6	-
Charpy Notched, kJ/m^2	179		
23C		8	20
-30C		7	-
Charpy Unnotched, kJ/m^2	179		
23C		50	105
-30C		45	-
THERMAL	**ISO Test Method**	**Dry**	**Conditioned**
Melting Point, C	3146	220	-
HDT A, C	75	190	-
HDT B, C	75	215	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.33 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C		0.75 X10-4	-
ELECTRICAL	**ISO Test Method**	**Dry**	**Conditioned**
Volume Resistivity	IEC 60093	1E13	1E10
Dielectric Constant (1 MHz)	IEC 60250	3.8	7

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Dissipation Factor (100 Hz)	IEC 60250	250	2,400
Dissipation Factor (1 MHz)	IEC 60250	250	2,400

UL RATINGS	UL Test Method	Property Value
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, C		130
Mechanical w/ Impact, C		95
Electrical, C		120