

Ultramid® B3EG6

Polyamide 6

Product Description

Ultramid B3EG6 is a 30% glass fiber reinforced injection molding PA6 grade.

Applications

Typical applications include industrial articles and electrical insulating parts.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.36	
Moisture, %	62		
(50% RH)		2.1	
(Saturation)		6.6	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	50	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		9,500	6,200
Tensile stress at break, MPa	527		
23C		185	115
Tensile strain at break, %	527		
23C		3.5	8
Flexural Strength, MPa	178		
23C		270	180
Flexural Modulus, MPa	178		
23C		8,600	5,000
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		15	20
Charpy Notched, kJ/m ²	179		
23C		15	30
-30C		11	-
Charpy Unnotched, kJ/m ²	179		
23C		95	110
-30C		80	-
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		0.23 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C		0.65 X10-4	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Volume Resistivity	IEC 60093	1E13	1E10



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Dielectric Constant (1 MHz)	IEC 60250	3.8	6.8
Dissipation Factor (100 Hz)	IEC 60250	230	2,200
Dissipation Factor (1 MHz)	IEC 60250	230	2,200

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

