

Ultramid® B3EG7

Polyamide 6

Product Description

Ultramid B3EG7 is a 35% 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	1.41	
Moisture, %	62		
(50% RH)		2	
(Saturation)		6.2	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 C/- Kg), cc/10min.	1133	45	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		11,000	7,200
Tensile stress at break, MPa	527		
23C		200	130
Tensile strain at break, %	527		
23C		3.5	7
Flexural Modulus, MPa	178		
23C		10,000	-
IMPACT	ISO Test Method	Dry	Conditioned
Charpy Notched, kJ/m ²	179		
23C		17	33
-30C		13	-
Charpy Unnotched, kJ/m ²	179		
23C		105	110
-30C		90	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	215	-
HDT B, C	75	220	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.17 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C		0.65 X10-4	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	575	575
Volume Resistivity	IEC 60093	1E15	1E10
Dielectric Constant (1 MHz)	IEC 60250	3.9	6.2
Dissipation Factor (100 Hz)	IEC 60250	210	1,900
Dissipation Factor (1 MHz)	IEC 60250	210	1,900



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

