

Ultramid® B3M6

Polyamide 6

Product Description

Ultramid B3M6 is a 30% mineral reinforced injection molding PA6 grade for industrial items requiring high impact strength and very high dimensional stability, excellent laser markability.

Applications

Typical applications include industrial items.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.36	
Moisture, %	62		
(50% RH)		2.4	
(Saturation)		6.2	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		4,600	1,700
Tensile stress at break, MPa	527		
23C		85	45
Tensile strain at break, %	527		
23C		15	20
Flexural Modulus, MPa	178		
23C		4,000	1,400
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		6.5	-
Charpy Notched, kJ/m ²	179		
23C		8	-
-30C		7	-
Charpy Unnotched, kJ/m ²	179		
23C		220	-
-30C		145	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	120	-
HDT B, C	75	195	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.65 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C		0.6 X10-4	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	450	-
Volume Resistivity	IEC 60093	1E15	-
Dielectric Constant (1 MHz)	IEC 60250	3.5	-
Dissipation Factor (100 Hz)	IEC 60250	200	-



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Dissipation Factor (1 MHz)	IEC 60250	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		65	
Mechanical w/ Impact, C		65	
Electrical, C		65	

