

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	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.36	
Mold Shrinkage (1/8" bar, in/in)		0.009	
Moisture, %	D-570		
(50% RH)		2.4	
(Saturation)		6.2	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Break, MPa (psi)	D-638		
23C (73F)		76 (11,000)	-
Elongation, Break, %	D-638		
23C (73F)		5	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		4,100 (595,000)	-
IMPACT	ASTM Test Method	Dry	Conditioned
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
-40C (-40F)		45 (0.8)	-
23C (73F)		64 (1.2)	-
THERMAL	ASTM Test Method	Dry	Conditioned
Melting Point, C(F)	D-3418	220 (428)	-
Heat Deflection @ 264 psi (1.8 MPa) C(F)	D-648	120 (248)	-
Heat Deflection @ 66 psi (.45 MPa) C(F)	D-648	195 (383)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.3 X10-4	-
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	
ELECTRICAL	ASTM Test Method	Dry	Conditioned
Volume Resistivity, 1.5 mm	D-257	1E15	-

