

Ultramid® B3L

Polyamide 6

Product Description

Ultramid B3L is an impact-modified, easy flowing injection molding PA6 grade for fast processing.

Applications

Typical applications include impact-resistant articles such as housings, fittings, small parts and anchors.

PHYSICAL	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.1	
Mold Shrinkage (1/8" bar, in/in)		0.011	
Moisture, %	D-570		
(50% RH)		2.5	
(Saturation)		9	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Yield, MPa (psi)	D-638		
23C (73F)		69 (10,000)	-
Elongation, Yield, %	D-638		
23C (73F)		4	-
Elongation, Break, %	D-638		
23C (73F)		25	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		2,500 (362,000)	-
IMPACT	ASTM Test Method	Dry	Conditioned
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
-40C (-40F)		53 (1.0)	-
23C (73F)		134 (2.5)	-
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	66 (150)	-
Heat Deflection @ 66 psi (.45 MPa) C(F)	D-648	160 (320)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.4 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	1E13	1E10

