

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	ISO Test Method	Property Value	
Density, g/cm	1183	1.1	
Moisture, %	62		
(50% RH)		2.5	
(Saturation)		9	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	100	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		2,800	900
Tensile stress at yield, MPa	527		
23C		70	35
Tensile strain at yield, %	527		
23C		4	18
Nominal strain at break, %	527		
23C		25	>50
Flexural Modulus, MPa	178		
23C		2,300	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		15	-
Charpy Notched, kJ/m ²	179		
23C		10	N
-30C		6	-
Charpy Unnotched, kJ/m ²	179		
23C		N	N
-30C		N	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	65	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.85 X10-4	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	600	600
Volume Resistivity	IEC 60093	1E13	1E10
Dielectric Constant (100 Hz)	IEC 60250	4	-



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Dielectric Constant (1 MHz)	IEC 60250	3.5	6.4
Dissipation Factor (100 Hz)	IEC 60250	100	-
Dissipation Factor (1 MHz)	IEC 60250	240	2,400

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

