

Ultramid® B3ZG3

Polyamide 6

Product Description

Ultramid B3ZG3 is an impact-modified, 15% glass fiber reinforced injection molding PA6 grade.

Applications

Typical applications include automobile cable conduits.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.22	
Moisture, %	62		
(50% RH)		2.4	
(Saturation)		7.5	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	35	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		5,500	2,900
Tensile stress at break, MPa	527		
23C		110	60
Tensile strain at break, %	527		
23C		4	18
Flexural Strength, MPa	178		
23C		150	80
Flexural Modulus, MPa	178		
23C		4,500	2,500
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		15	29
Charpy Notched, kJ/m ²	179		
23C		16	30
-30C		7	-
Charpy Unnotched, kJ/m ²	179		
23C		75	110
-30C		55	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	180	-
HDT B, C	75	200	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.33 X10-4	-
Coef. of Linear Thermal Expansion, Normal, mm/mm C		0.75 X10-4	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Volume Resistivity	IEC 60093	1E13	1E10



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Dielectric Constant (1 MHz)	IEC 60250	3.7	6.2
Dissipation Factor (1 MHz)	IEC 60250	250	2,000

UL RATINGS	UL Test Method	Property Value
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, C		150
Mechanical w/ Impact, C		115
Electrical, C		150

