

Ultramid® B3K

Polyamide 6

Product Description

Ultramid B3K is an easy flowing, stabilized PA6 product for fast processing.

Applications

Typical applications include technical parts with wall thicknesses greater than 2 mm.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.13	
Moisture, %	62		
(50% RH)		3	
(Saturation)		9.5	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	160	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		3,000	1,000
Tensile stress at yield, MPa	527		
23C		85	40
Tensile stress at break, MPa	527		
23C		80	-
Tensile strain at yield, %	527		
23C		3.7	20
Nominal strain at break, %	527		
23C		20	>50
Flexural Modulus, MPa	178		
23C		2,600	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		5.6	-
Charpy Notched, kJ/m ²	179		
23C		5.5	60
-30C		4	-
Charpy Unnotched, kJ/m ²	179		
23C		N	N
-30C		100	-
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	-
Dielectric Constant (1 MHz)	IEC 60250	3.5	7
Dissipation Factor (100 Hz)	IEC 60250	100	-
Dissipation Factor (1 MHz)	IEC 60250	230	3,000
UL RATINGS	UL Test Method	Property Value	
Flammability Rating, 1.5mm	UL94	HB	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		115	
Mechanical w/ Impact, C		75	
Electrical, C		130	

