

Ultramid® B3GK24

Polyamide 6

Product Description

Ultramid B3GK24 is 30% combined glass-fiber and glass bead injection molding PA6 grade for industrial articles having very high dimensional stability.

Applications

Typical applications include automobile ashtrays and housings for electronics.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.34	
Moisture, %	62		
(50% RH)		2	
(Saturation)		6.6	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	70	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		6,000	3,000
Tensile stress at break, MPa	527		
23C		105	60
Tensile strain at break, %	527		
23C		3.5	15
IMPACT	ISO Test Method	Dry	Conditioned
Charpy Notched, kJ/m ²	179		
23C		5	11
-30C		5	-
Charpy Unnotched, kJ/m ²	179		
23C		40	90
-30C		39	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	200	-
HDT B, C	75	215	-
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.38 X10-4	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	425	425
Volume Resistivity	IEC 60093	1E13	1E10
Dielectric Constant (1 MHz)	IEC 60250	3.9	4.6
Dissipation Factor (1 MHz)	IEC 60250	200	700
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	

