

Ultramid® B3GM35 Q611

Polyamide 6

Product Description

Ultramid B3GM35 Q611 is a 40% combined glass-fiber and mineral reinforced injection molding PA6 grade.

Applications

Typical applications include industrial articles requiring medium rigidity and high dimensional stability.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.48	
Moisture, %	62		
(50% RH)		1.7	
(Saturation)		5.7	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	25	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		8,000	5,000
Tensile stress at break, MPa	527		
23C		120	65
Tensile strain at break, %	527		
23C		3	12
IMPACT	ISO Test Method	Dry	Conditioned
Charpy Notched, kJ/m ²	179		
23C		8	-
-30C		6	-
Charpy Unnotched, kJ/m ²	179		
23C		50	-
-30C		50	-
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	400	-
Volume Resistivity	IEC 60093	1E13	1E10
Dielectric Constant (1 MHz)	IEC 60250	3.9	6.2
Dissipation Factor (100 Hz)	IEC 60250	200	200
Dissipation Factor (1 MHz)	IEC 60250	200	200

