

Ultramid® B3U Q721

Polyamide 6

Product Description

Ultramid B3U Q721 is an injection molding grade, flame-retardant, free from halogen and phosphorus, and UL94 V0 approved. Technical molded parts are used for electrical engineering.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.17	
Moisture, %	62		
(50% RH)		2.5	
(Saturation)		0.10	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		3,700	1,100
Tensile stress at yield, MPa	527		
23C		80	45
Tensile stress at break, MPa	527		
23C		74	-
Tensile strain at yield, %	527		
23C		4	15
Flexural Modulus, MPa	178		
23C		3,000	-
IMPACT	ISO Test Method	Dry	Conditioned
Charpy Notched, kJ/m ²	179		
23C		3	-
-30C		3	-
Charpy Unnotched, kJ/m ²	179		
23C		N	N
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	65	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	600	-
Volume Resistivity	IEC 60093	1E13	1E10
Dielectric Constant (1 MHz)	IEC 60250	3.4	6
Dissipation Factor (1 MHz)	IEC 60250	150	2,500

