

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	ASTM Test Method	Property Value	
Specific Gravity	D-792	1.17	
Mold Shrinkage (1/8" bar, in/in)		0.008	
Moisture, %	D-570		
(50% RH)		2.5	
(Saturation)		0.10	
MECHANICAL	ASTM Test Method	Dry	Conditioned
Tensile Strength, Yield, MPa (psi)	D-638		
23C (73F)		83 (12,000)	-
Elongation, Yield, %	D-638		
23C (73F)		5	-
Elongation, Break, %	D-638		
23C (73F)		50	-
Flexural Modulus, MPa (psi)	D-790		
23C (73F)		3,000 (435,000)	-
IMPACT	ASTM Test Method	Dry	Conditioned
Notched Izod Impact, J/M (ft-lbs/in)	D-256		
-40C (-40F)		32 (0.6)	-
23C (73F)		43 (0.8)	-
THERMAL	ASTM Test Method	Dry	Conditioned
Melting Point, C(F)	D-3418	220 (428)	-
Heat Deflection @ 264 psi (1.8 MPa) C(F)	D-648	91 (195)	-
Heat Deflection @ 66 psi (.45 MPa) C(F)	D-648	224 (435)	-
Coef. of Linear Thermal Expansion, mm/mm C (in/in F)	E-831	0.4 X10-4	-
ELECTRICAL	ASTM Test Method	Dry	Conditioned
Volume Resistivity, 1.5 mm	D-257	1E13	1E10

