

Ultramid® B3U Q721 BK23079

Polyamide 6

BASF Corporation

Message:

Ultramid B3U Q721 BK23079 is an injection molding grade, flame-retardant, free from halogen and phosphorus, and UL94 V0 approved. Technical molded parts are used for electrical engineering.

General Information			
Features	Phosphorus content, low (to none)		
	Halogen-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	80.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	3400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	2.8	kJ/m ²	ISO 179
23°C	3.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	240 - 285	°C	
Mold Temperature	65 - 80	°C	
Injection Pressure	3.50 - 12.5	MPa	
Injection Rate	Fast		

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Recommended distributors for this material

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