

## Ultramid® B3U Q721 BK23079

## BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information				
Product Description				
Ultramid B3U Q721 BK23079 is molded parts are used for electr		ant, free from halogen and phosphorus, and UL94 V0 approved. Technical		
General				
Material Status	Commercial: Active			
Availability	North America			
Features	<ul><li>Flame Retardant</li><li>Halogen Free</li></ul>	<ul><li>Low (to None) Phosphorus Content</li><li>Oil Resistant</li></ul>		
Uses	Electrical/Electronic Applications			
Agency Ratings	• EC 1907/2006 (REACH)			
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>			
Appearance	Black			
Forms	<ul> <li>Pellets</li> </ul>			
Processing Method	Injection Molding			

ASTM & ISO Properties <sup>1</sup>				
Physical	Nominal Value	Unit	Test Method	
Density	1.18	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (73°F)	551000	psi	ISO 527-2	
Tensile Stress (Yield, 73°F)	11600	psi	ISO 527-2	
Tensile Strain (Yield, 73°F)	4.0	%	ISO 527-2	
Flexural Modulus (73°F)	493000	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179	
-22°F	1.3	ft·lb/in²		
73°F	1.4	ft·lb/in²		
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	167	°F	ISO 75-2/A	
Melting Temperature (DSC)	428	°F	ISO 3146	

Processing Information			
njection	Nominal Value Unit		
Drying Temperature	176 °F		
Drying Time	2.0 to 4.0 hr		
Suggested Max Moisture	0.15 %		
Processing (Melt) Temp	464 to 545 °F		
Mold Temperature	149 to 176 °F		
Injection Pressure	508 to 1810 psi		
Injection Rate	Fast		

## **Notes**

<sup>&</sup>lt;sup>1</sup> Typical properties: these are not to be construed as specifications.

