

Ultramid® C 3U BK23079

Polyamide 66/6 Copolymer

BASF Corporation

Product Description
Ultramid C3U BK23079 is an injection molding, general purpose PA6/66, pigmented black grade with improved flame retardance.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Flame Retardant • Good Flow	• Halogen Free • Low (to None) Phosphorus Content	• Low Viscosity
Uses	• Electronic Insulation		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1160	kg/m ³	ISO 1183 ²
Water Absorption			ISO 62 ²
Saturation	8.5	%	
Equilibrium	2.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	3770	MPa	ISO 527-2 ²
Tensile Stress (Yield)	84.0	MPa	ISO 527-2 ²
Tensile Strain (Yield)	3.7	%	ISO 527-2 ²
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	69	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	68.0	°C	ISO 75-2 ²
Melting Temperature (DSC)	243	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Comparative tracking index	600		IEC 60112 ²
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	V-0		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	120	°C	UL 746
RTI Imp (1.50 mm)	105	°C	UL 746
RTI Elec (1.50 mm)	120	°C	UL 746
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	240 to 285	°C	
Mold Temperature	65.0 to 80.0	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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