

Ultramid® C3U BK23079

Polyamide 66/6 Copolymer

BASF Corporation

Message:

Ultramid C3U BK23079 is an injection molding, general purpose PA6/66, pigmented black grade with improved flame retardance. The product is UL recognized as 94V0 at 0.4 mm minimum thickness.

Applications

It is used for impact resistant electrical insulating parts such as contact bases and plug connector strips.

General Information			
UL YellowCard	E36632-531680	E41871-233722	E333174-100976889
Features	E333174-101180750		
	Flame Retardant		
	General Purpose		
	Good Impact Resistance		
Uses	Electrical Parts		
	Electronic Insulation		
	General Purpose		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	8.5	%	
Equilibrium, 23°C, 50% RH	2.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3770	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	84.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.7	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	69	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	68.0	°C	ISO 75-2/A
Melting Temperature (DSC)	243	°C	ISO 3146
RTI Elec			UL 746

0.380 mm	110	°C	
0.750 mm	120	°C	
1.50 mm	120	°C	
3.00 mm	120	°C	
RTI Imp			UL 746
0.380 mm	65.0	°C	
0.750 mm	105	°C	
1.50 mm	105	°C	
3.00 mm	105	°C	
RTI Str			UL 746
0.380 mm	65.0	°C	
0.750 mm	115	°C	
1.50 mm	120	°C	
3.00 mm	120	°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.380 mm	V-0		
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT