#### **Product Information**

# Ultramid® C3U BK23079 Polyamide 6/66



### **Product Description**

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.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	,	1.16
Moisture, %	62		
(50% RH)		2.9	
(Saturation)			8.5
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		3,770	-
Tensile stress at yield, MPa	527		
23C		84	-
Tensile strain at yield, %	527		
23C		3.7	-
IMPACT	ISO Test Method	Dry	Conditioned
Charpy Unnotched, kJ/m <sup>2</sup>	179		
23C		69	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	243	-
HDT A, C	75	68	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	600	-
UL RATINGS	<b>UL Test Method</b>	Property Value	
Flammability Rating, 1.5mm	UL94	V-0	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		120	
Mechanical w/ Impact, C		105	
Electrical, C		120	





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#### **Typical Profile**

Melt Temperature 240-285 degC (464-545 degF) Mold Temperature 65-80 degC (149-176 degF) Injection and Packing Pressure 35-125 bar (500-1500 psi)

#### **Mold Temperatures**

A mold temperature of 65-80 degC (149-176 degF) is recommended, but temperatures of as low as 10 degC (50 degF) can be used where applicable.

#### **Pressures**

Injection pressure controls the filling of the part and should be applied for 90% of ram travel. Packing pressure affects the final part and can be used effectively in controlling sink marks and shrinkage. It should be applied and maintained until the gate area is completely frozen off.

#### Fill Rate

Fast fill rates are recommended to ensure uniform melt delivery to the cavity and prevent premature freezing.

#### Note

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