

BASF Ultramid® C3U BK 23079 PA6/66 FR (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Description: Injection-molding grade with improved flame retardance (free from halogens and phosphorus), used e.g. for impact resistant electrically insulating parts such as contact bases and plug connector strips. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-C3U-BK-23079-PA666-FR-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Water Absorption	8.0 - 9.0 %	8.0 - 9.0 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	2.6 - 3.2 %	2.6 - 3.2 %	23°C; 50% RH; ISO 62
Viscosity Measurement	150	150	ISO 307
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	restricted
Melt Flow	188.38 g/10 min @Load 5.00 kg, Temperature 275 °C	188.38 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	20 %	20 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	1.50 GPa	218 ksi	ISO 527-1/-2
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature 23.0 °C	5.23 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	890 MPa @Strain <=0.500 %	129000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
	60.0 - 100 µm/m-°C	33.3 - 55.6 µin/in-°F	

CTE linear Transverse to Flow Thermal Properties	Metric @ Temperature 23.0 - 80.0 °C	English @ Temperature 73.4 - 176 °F	DIN 11359-1/-2 Comments
Specific Heat Capacity	1.70 J/g-°C	0.406 BTU/lb-°F	
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft²-°F	DIN 52612
Melting Point	243 °C	469 °F	DIN 53765
Maximum Service Temperature, Air	107 °C	225 °F	for 50% loss of tensile strength after 20000hr
	123 °C	253 °F	for 50% loss of tensile strength after 5000hr
	200 °C	392 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+10 ohm	>= 1.00e+10 ohm	IEC 60093
Dielectric Constant	6.0 @Frequency 1.00 Hz	6.0 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.30 @Frequency 1.00e+6 Hz	0.30 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	Injection-molding/Extrusion
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	Injection-molding

Descriptive Properties	Value	Comments
Color	BK 23079	
Commercial Status	Europe	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China