

BASF Ultramid® C3U10 PA6/66 FR (Dry)

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

Material Notes:

Description: Flame-retardant injection-molding grade; light colorable. Burning behavior optimized for glow-wire requirements of IEC 60335. Typical applications are switches, housings, plug connectors etc. in household appliance. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-C3U10-PA666-FR-Dry.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Melt Flow	258 g/10 min @Load 5.00 kg, Temperature 275 °C	258 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	3.4 %	3.4 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	3.60 GPa	522 ksi	ISO 527-1/-2
Flexural Strength	110 MPa	16000 psi	at max force; ISO 178
Flexural Modulus	3.60 GPa	522 ksi	ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	3.00 kJ/m ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	9.00 J/cm ² @Temperature -30.0 °C	42.8 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	240 °C	464 °F	DIN 53765
Flammability, UL94	V-2 @Thickness >=0.400 mm	V-2 @Thickness >=0.0157 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	350 V	350 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
Commercial Status	Europe	

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