

BASF Ultramid® A3EG10 High Speed

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-A3EG10-High-Speed.php

Physical Properties	Metric	English	Comments
Spiral Flow	30.0 cm	11.8 in	290/1000 Bar
	@Thickness 1.50 mm, Temperature 80.0 °C	@Thickness 0.0591 in, Temperature 176 °F	
	43.0 cm	16.9 in	290/1000 Bar
	@Thickness 2.00 mm, Temperature 80.0 °C	@Thickness 0.0787 in, Temperature 176 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	240 MPa	34800 psi	
Elongation at Break	2.2 %	2.2 %	
Tensile Modulus	16.4 GPa	2380 ksi	
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.30 J/g-°C	0.311 BTU/lb-°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.50e+14 ohm-cm	6.50e+14 ohm-cm	
Dielectric Constant	4.1	4.1	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	IEC 60243/1
	@Temperature 100 °C	@Temperature 212 °F	
	40.0 kV/mm	1020 kV/in	IEC 60243/1
	@Temperature 50.0 °C	@Temperature 122 °F	

Electrical Properties	40.0 kV/mm Metric	1020 kV/in English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dissipation Factor	0.017	0.017	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Commercial Status	Europe	

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