

BASF Ultramid® Structure B3WG10 LF High-Performance Long-Glass Fiber Reinforced Polyamide

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-Structure-B3WG10-LF-High-Performance-Long-Glass-Fiber-Reinforced-Polyamide.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	118 MPa	17100 psi	
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	7.335 GPa	1064 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.50 J/cm ²	16.7 ft-lb/in ²	Conditioned: 15 days, 70°C, 70% humidity
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.70 J/cm ²	17.6 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop, Total Energy	4.50 J	3.32 ft-lb	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.00 J	6.64 ft-lb	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	40.0 MPa	5800 psi	
	@Temperature 120 °C	@Temperature 248 °F	

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Continuous Vibration Test Cycles	70 Mpa	R= -1
Creep Elongation	0.4	1 hr @ 40 Mpa, 120°C,
	0.43	1 hr @ 40 Mpa, 150°C,
	0.5	100 hr @ 40 Mpa, 120°C,
		100 hr @ 40 Mpa, 150°C,

Descriptive Properties	0.5 Value	Comments
	0.54	1000 hr @ 40 Mpa, 120°C,
	0.55	1000 hr @ 40 Mpa, 150°C,

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