

BASF Ultramid® B3WG10 LF

Mechanical Properties	Metric	English	Comments
Tensile Strength	118 MPa @Temperature 120 °C	17100 psi @Temperature 248 °F	
Tensile Modulus	7.335 GPa @Temperature 120 °C	1064 ksi @Temperature 248 °F	
Charpy Impact, Notched	1.40 J/cm² @Temperature -30.0 °C	6.66 ft-lb/in² @Temperature -22.0 °F	
	3.50 J/cm² @Temperature 23.0 °C	16.7 ft-lb/in² @Temperature 73.4 °F	Conditioned: 15 days, 70°C, 70% humidity
	3.70 J/cm² @Temperature 23.0 °C	17.6 ft-lb/in² @Temperature 73.4 °F	
Dart Drop, Total Energy	4.50 J @Temperature -30.0 °C	3.32 ft-lb @Temperature -22.0 °F	
	9.00 J @Temperature 23.0 °C	6.64 ft-lb @Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	40.0 MPa @Temperature 120 °C	5800 psi @Temperature 248 °F	

Descriptive Properties		
Commercial Status	Europe	
Continuous Vibration Test Cycles	70 Mpa	R= -1
Creep Elongation	40%	1 hr @ 40 Mpa, 120°C,
	43%	1 hr @ 40 Mpa, 150°C,
	50%	100 hr @ 40 Mpa, 120°C,
	50%	100 hr @ 40 Mpa, 150°C,
	54%	1000 hr @ 40 Mpa, 120°C,
	55%	1000 hr @ 40 Mpa, 150°C,