

# Ultramid® B 3EG6 (Cond)

Polyamide 6

BASF Corporation

## Product Description

Ultramid B3EG6 is a 30% glass fiber reinforced injection molding PA6 grade. It conforms to FDA requirements of 21 CFR 177.1500.

## General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Abrasion Resistance • Good Chemical Resistance • Good Colorability • Good Creep Resistance • Good Dimensional Stability	• Good Flow • Good Processability • Good Stiffness • Good Thermal Aging Resistance • Good Weather Resistance	• Heat Stabilized • Low Viscosity • Oil Resistant • Semi Crystalline
Uses	• Automotive Applications • Electrical Housing	• Housings • Lawn and Garden Equipment	• Power/Other Tools
Agency Ratings	• FDA 21 CFR 177.1500	• NSF 51	• NSF 61
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1)	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2)

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	6200	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress			
Break, -40°C	209	MPa	ISO 527-2
Break, 121°C	66.0	MPa	ISO 527-2
Break	115	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	8.0	%	ISO 527-2 <sup>2</sup>
Flexural Modulus (23°C)	5000	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	30.0	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Charpy Unnotched Impact Strength (23°C)	110	kJ/m <sup>2</sup>	ISO 179

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity <sup>3</sup>	1.0E+10	ohms	ASTM D257
Volume Resistivity (1.50 mm)	1.0E+10	ohm·cm	ASTM D257

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

<sup>3</sup> 1.5 mm

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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