

Ultramid® A 3EG3 (Cond)

Polyamide 66

BASF Corporation

Product Description

Ultramid A3EG3 is a 15% glass fiber reinforced injection molding PA66 grade. It conforms to FDA requirements of 21 CFR 177.1500.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Dimensional Stability • Good Flow • Good Thermal Aging Resistance	• Good Weather Resistance • Heat Stabilized • Low Viscosity	• Oil Resistant • Semi Rigid
Uses	• Automotive Applications • Automotive Electronics • Automotive Under the Hood	• Connectors • Electrical Housing • Electrical Parts	• Housings • Industrial Applications • Machine/Mechanical Parts
Agency Ratings	• FDA 21 CFR 177.1500	• NSF 51	
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)	

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	4500	MPa	ISO 527-2 ²
Tensile Stress (Break)	85.0	MPa	ISO 527-2 ²
Tensile Strain (Break)	10	%	ISO 527-2 ²
Flexural Modulus (23°C)	4000	MPa	ISO 178
Flexural Strength (23°C)	125	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	11.0	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	14.0	kJ/m ²	ISO 180

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

Notes

¹ Typical properties: these are not to be construed as specifications.

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

³ 1.5 mm

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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