

# Ultramid® A 3HG5 (Cond)

Polyamide 66

BASF Corporation

## Product Description

Ultramid A3HG5 is a 25% glass fiber reinforced injection molding PA66 grade.

## General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Dimensional Stability • Good Flow • Good Thermal Aging Resistance • Good Weather Resistance • Heat Stabilized • High Rigidity • Low Viscosity • Oil Resistant
Uses	• Automotive Applications • Automotive Electronics • Automotive Under the Hood • Connectors • Electrical Housing • Electrical Parts • Housings • Industrial Applications • Machine/Mechanical Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Black • 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	6500	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress			
Break, -40°C	186	MPa	ISO 527-2
Break	120	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	6.0	%	ISO 527-2 <sup>2</sup>

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	18.0	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Charpy Unnotched Impact Strength (23°C)	90	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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