

# Ultramid® A 3WG6 (Cond)

Polyamide 66

BASF Corporation

## Product Description

Ultramid A3WG6 is a 30% glass fiber reinforced and heat resistance injection molding PA66 grade for machinery components and housings of high stiffness and dimensional stability.

## General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Dimensional Stability • Heat Stabilized • Oil Resistant • Good Flow • High Rigidity • Good Thermal Aging Resistance • Low Viscosity
Uses	• Automotive Applications • Bearings • Industrial Applications • Automotive Under the Hood • Housings • Machine/Mechanical Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Black • Colors Available • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	7200	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress			
Break, 121°C	74.0	MPa	ISO 527-2
Break	130	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	5.0	%	ISO 527-2 <sup>2</sup>
Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	22.0	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Charpy Unnotched Impact Strength (23°C)	100	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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