

# Ultramid® A 3EG3 BK00564

Polyamide 66

BASF Corporation

## Product Description

Ultramid A3EG3 BK00564 is a 15% glass fiber reinforced, pigmented black, 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 Fabric Reinforcement, 15% Filler by Weight
Additive	• Heat Stabilizer
Features	• Electrically Insulating • Good Dimensional Stability • Good Flow • Good Stiffness • Good Thermal Aging Resistance • Good Weather Resistance • Heat Stabilized • Low Viscosity • Oil Resistant • Semi Rigid
Uses	• Automotive Bumper • Automotive Electronics • Automotive Under the Hood • Connectors • Electrical Housing • Electrical Parts • Housings • Industrial Applications • Machine/Mechanical Parts
Agency Ratings	• FDA 21 CFR 177.1500
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1240	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Water Absorption			ISO 62 <sup>2</sup>
Saturation	7.0	%	
Equilibrium	2.2	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	122	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	2.5	%	ISO 527-2 <sup>2</sup>

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	5.50	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Notched Izod Impact Strength (23°C)	5.50	kJ/m <sup>2</sup>	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	246	°C	ISO 75-2 <sup>2</sup>
Melting Temperature (DSC)	260	°C	ISO 3146
CLTE			ISO 11359-2
Flow	0.000033	cm/cm/°C	
Transverse	0.000075	cm/cm/°C	

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.12	%
Processing (Melt) Temp	280 to 305	°C
Mold Temperature	80.0 to 90.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

## 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.

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