



Ultramid® A3EG3 BK00564

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid A3EG3 BK00564 is a 15% glass fiber reinforced, pigmented black, injection molding PA66 grade.

Applications

Typical applications include medium stiffness machinery components and housings, as well as electrically insulating parts.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fabric, 15% Filler by Weight
Features	• Good Stiffness • Oil Resistant
Uses	• Electronic Insulation • Housings • Machine/Mechanical Parts
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	7.0	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	870000	psi	ISO 527-2
Tensile Stress (Break, 73°F)	17700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.6	ft-lb/in ²	ISO 179
Notched Izod Impact Strength (73°F)	2.6	ft-lb/in ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	475	°F	ISO 75-2/A
Melting Temperature (DSC)	500	°F	ISO 3146
CLTE - Flow	1.8E-5	in/in/°F	
CLTE - Transverse	4.2E-5	in/in/°F	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	536 to 581	°F
Mold Temperature	176 to 194	°F
Injection Pressure	508 to 1810	psi

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Injection	Nominal Value	Unit
Injection Rate		Fast

Notes

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