



Ultramid® B3GM35 BK60564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3GM35 BK60564 is a 40% combined glass-fiber and mineral reinforced, pigmented black injection molding PA6 grade.

Applications

Typical applications include industrial articles requiring medium rigidity and high dimensional stability.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • North America
Filler / Reinforcement	• Glass\Mineral, 40% Filler by Weight
Features	• High Dimensional Stability • Medium Rigidity • Oil Resistant
Uses	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• FORD WSK-M4D822-A Color: Black • GM GMW8752P-PA6-M25-GF15H Color: Black
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	5.7	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.20E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	18600	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	1.10E+6	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-40°F	1.9	ft-lb/in ²	
73°F	2.6	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	428	°F	ISO 3146

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	181	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	518 to 563	°F

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Injection	Nominal Value	Unit
Mold Temperature	176 to 203	°F
Injection Pressure	508 to 1810	psi
Injection Rate	Fast	

Notes

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