



Ultramid® B3EG4

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3EG4 uncolored is a 20% glass fiber reinforced, injection molding PA6 grade.

Applications

Typical applications include automotive interior and general industrial applications.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Oil Resistant
Uses	• Automotive Interior Parts • Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	972000	psi	ISO 527-2
Tensile Stress (Break, 73°F)	19600	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.9	%	ISO 527-2
Flexural Modulus (73°F)	899000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.6	ft-lb/in ²	ISO 179
Charpy Unnotched Impact Strength (-22°F)	3.2	ft-lb/in ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°F	3.0	ft-lb/in ²	
73°F	3.6	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	388	°F	ISO 75-2/A
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
Mold Temperature	176 to 203	°F
Injection Pressure	500 to 1500	psi
Injection Rate	Fast	

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Notes

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