



Ultramid® A3W2G10 BK20560

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid A3W2G10 BK20560 is a 50% glass fiber reinforced injection molding PA66 grade.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• Oil Resistant
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	1.58	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	20	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	2.20E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	34200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.9	%	ISO 527-2
Flexural Modulus (73°F)	2.10E+6	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	ft-lb/in ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°F	6.2	ft-lb/in ²	
73°F	6.7	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	493	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	477	°F	ISO 75-2/A
Melting Temperature	500	°F	ISO 3146

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
Injection Rate	Fast	

Notes

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