

Ultramid® A 3WG7 BK23210

Polyamide 66

BASF Corporation

Product Description

Ultramid A3WG7 BK23210 is a 35% glass fiber reinforced, pigmented black and heat resistance injection molding PA66 grade for machinery for industrial items.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 35% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Dimensional Stability • Good Flow • Good Thermal Aging Resistance • Heat Stabilized • High Rigidity • Low Viscosity • Oil Resistant
Uses	• Automotive Applications • Automotive Under the Hood • Bearings • Gears • Housings • Industrial Applications • Machine/Mechanical Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
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Density	1410	kg/m ³	ISO 1183 ²
Water Absorption			
24 hr, 23°C	1.6	%	ISO 62
Saturation	5.0	%	ISO 62 ²
Equilibrium	1.6	%	ISO 62 ²

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	190	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.5	%	ISO 527-2 ²
Flexural Modulus (23°C)	9600	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	10.0	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	250	°C	ISO 75-2 ²
Melting Temperature (DSC)	260	°C	ISO 3146

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

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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