

Ultramid® A 3EG7 BK23189

Polyamide 66

BASF Corporation

Product Description

Ultramid A3EG7 BK23189 is a 35% glass fiber reinforced, pigmented black, injection molding PA66 grade for machinery components and housings of high stiffness and dimensional stability.

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 • Good Weather Resistance • Heat Stabilized • High Rigidity • Low Viscosity • Oil Resistant |
| Uses | • Automotive Applications • Electronic Insulation • Housings |
| RoHS Compliance | • RoHS Compliant |
| Appearance | • Black |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|------------------------|
| 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) | 2.8 | % | ISO 527-2 ² |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact Strength (23°C) | 9.50 | 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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