

# Ultramid® A3ZG7 HP BK20465

Polyamide 66

BASF Corporation

Message:

Ultramid A3ZG7 HP BK20465 is a 33% glass reinforced, heat stabilized, impact modified PA66 black with a combination of excellent impact resistance, toughness and strength.

| General Information            |                                  |       |             |
|--------------------------------|----------------------------------|-------|-------------|
| UL YellowCard                  | E36632-100688193                 |       |             |
| Filler / Reinforcement         | Glass Fiber,33% Filler by Weight |       |             |
| Additive                       | Heat Stabilizer                  |       |             |
|                                | Impact Modifier                  |       |             |
| Features                       | Good Toughness                   |       |             |
|                                | Heat Stabilized                  |       |             |
|                                | High Impact Resistance           |       |             |
|                                | High Strength                    |       |             |
|                                | Impact Modified                  |       |             |
|                                | Oil Resistant                    |       |             |
| Agency Ratings                 | EC 1907/2006 (REACH)             |       |             |
| RoHS Compliance                | RoHS Compliant                   |       |             |
| Appearance                     | Black                            |       |             |
| Forms                          | Pellets                          |       |             |
| Processing Method              | Injection Molding                |       |             |
| Physical                       | Nominal Value                    | Unit  | Test Method |
| Density                        | 1.33                             | g/cm³ | ISO 1183    |
| Mechanical                     | Nominal Value                    | Unit  | Test Method |
| Tensile Modulus (23°C)         | 8850                             | MPa   | ISO 527-2   |
| Tensile Stress (Break, 23°C)   | 140                              | MPa   | ISO 527-2   |
| Tensile Strain (Break, 23°C)   | 4.8                              | %     | ISO 527-2   |
| Flexural Modulus (23°C)        | 7980                             | MPa   | ISO 178     |
| Impact                         | Nominal Value                    | Unit  | Test Method |
| Charpy Notched Impact Strength |                                  |       | ISO 179     |
| -30°C                          | 18                               | kJ/m² |             |
| 23°C                           | 23                               | kJ/m² |             |
| Notched Izod Impact Strength   |                                  |       | ISO 180     |
| -40°C                          | 17                               | kJ/m² |             |
| 23°C                           | 24                               | kJ/m² |             |
| Thermal                        | Nominal Value                    | Unit  | Test Method |

|                             |                    |      |            |
|-----------------------------|--------------------|------|------------|
| Heat Deflection Temperature |                    |      |            |
| 0.45 MPa, Unannealed        | 260                | °C   | ISO 75-2/B |
| 1.8 MPa, Unannealed         | 244                | °C   | ISO 75-2/A |
| Melting Temperature (DSC)   | 260                | °C   | ISO 3146   |
| Injection                   | Nominal Value      | Unit |            |
| Drying Temperature          | 60.0               | °C   |            |
| Drying Time                 | 1.0 to 2.0         | hr   |            |
| Suggested Max Moisture      | 0.040 to 0.20      | %    |            |
| Processing (Melt) Temp      | 288 to 305         | °C   |            |
| Mold Temperature            | 60.0 to 100        | °C   |            |
| Injection Pressure          | 35.0 to 125        | MPa  |            |
| Injection Rate              | Fast               |      |            |
| Back Pressure               | 0.00 to 0.350      | MPa  |            |
| Screw Speed                 | 40 to 80           | rpm  |            |
| Screw Compression Ratio     | 3.0:1.0 to 4.0:1.0 |      |            |

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