



## Ultramid® B3K BK00464

BASF Corporation - Polyamide 6

Monday, November 4, 2019

### General Information

#### Product Description

Ultramid B3K BK00464 is an easy flowing, stabilized PA6 product for fast processing.

#### Applications

Typical applications include technical parts with wall thicknesses greater than 2 mm.

#### General

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Material Status           | • Commercial: Active                             |
| Availability              | • North America                                  |
| Features                  | • Fast Molding Cycle • Good Flow • Oil Resistant |
| Uses                      | • Engineering Parts                              |
| Agency Ratings            | • EC 1907/2006 (REACH)                           |
| RoHS Compliance           | • RoHS Compliant                                 |
| Automotive Specifications | • FORD WSK-M4D672-A                              |
| Appearance                | • Black                                          |
| Forms                     | • Pellets                                        |
| Processing Method         | • Injection Molding                              |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                          | Nominal Value | Unit                  | Test Method |
|---------------------------------------------------|---------------|-----------------------|-------------|
| Density                                           | 1.14          | g/cm <sup>3</sup>     | ISO 1183    |
| Mechanical                                        | Nominal Value | Unit                  | Test Method |
| Tensile Modulus (73°F)                            | 493000        | psi                   | ISO 527-2   |
| Tensile Stress (Break, 73°F)                      | 13100         | psi                   | ISO 527-2   |
| Flexural Modulus (73°F)                           | 435000        | psi                   | ISO 178     |
| Impact                                            | Nominal Value | Unit                  | Test Method |
| Charpy Notched Impact Strength (73°F)             | 2.9           | ft-lb/in <sup>2</sup> | ISO 179     |
| Notched Izod Impact Strength (73°F)               | 2.4           | ft-lb/in <sup>2</sup> | ISO 180     |
| Thermal                                           | Nominal Value | Unit                  | Test Method |
| Heat Deflection Temperature (264 psi, Unannealed) | 147           | °F                    | ISO 75-2/A  |

### 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 | 464 to 545    | °F   |
| Mold Temperature       | 149 to 176    | °F   |
| Injection Pressure     | 508 to 1810   | psi  |
| Injection Rate         | Fast          |      |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.