

# Ultramid® 8267G HS BK-102 (Cond)

Polyamide 6

BASF Corporation

## Product Description

Ultramid 8267G HS BK-102 is a heat stabilized, black pigmented, 40% mineral and glass fiber reinforced PA6 injection molding compound. It possesses a balance of engineering properties in combination with excellent dimensional stability, low warp and resistance to sink-mark formation. It exhibits high strength, rigidity, and good heat distortion temperature. It resists creep under load and the heat stabilizer system extends its retention of properties at elevated temperatures. It has good chemical resistance to greases, oils and hydrocarbons.

## General

|                        |   |   |  |
|------------------------|---|---|--|
| Material Status        | • Commercial: Active  |   |  |
| Availability           | • North America   |   |  |
| Filler / Reinforcement | • Glass Fiber Reinforcement, 15% Filler by Weight   | • Mineral Filler, 25% Filler by Weight  |  |
| Additive               | • Heat Stabilizer   |   |  |
| Features               | • Good Abrasion Resistance<br>• Good Chemical Resistance<br>• Good Creep Resistance<br>• Good Dimensional Stability<br>• Good Flow<br>• Good Processability | • Good Stiffness<br>• Good Surface Finish<br>• Good Thermal Aging Resistance<br>• Heat Stabilized<br>• High Strength<br>• Low Viscosity | • Low Warpage<br>• Paintable<br>• Semi Crystalline<br>• Warp Resistant |
| Uses                   | • Automotive Applications<br>• Automotive Exterior Parts<br>• Gears   | • Handles<br>• Lawn and Garden Equipment<br>• Power/Other Tools   | • Wheels   |
| Agency Ratings         | • ULC Unspecified Rating  |   |  |
| RoHS Compliance        | • RoHS Compliant  |   |  |
| Appearance             | • Black   |   |  |
| Forms                  | • Pellets   |   |  |
| Processing Method      | • Injection Molding   |   |  |

| Mechanical               | Nominal Value | Unit | Test Method            |
|--------------------------|---------------|------|------------------------|
| Tensile modulus          | 4160          | MPa  | ISO 527-2 <sup>2</sup> |
| Tensile Strength         |               |      |                        |
| Break, 23°C              | 67.0          | MPa  | ASTM D638              |
| Break                    | 67.0          | MPa  | ISO 527-2 <sup>2</sup> |
| Tensile Elongation       |               |      |                        |
| Break, 23°C              | 14            | %    | ASTM D638              |
| Break                    | 14            | %    | ISO 527-2 <sup>2</sup> |
| Flexural Modulus (23°C)  | 3680          | MPa  | ISO 178                |
| Flexural Strength (23°C) | 90.0          | MPa  | ISO 178                |

## Notes

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

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

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