

# Ultramid® 8233G HS BK-102 (Cond)

Polyamide 6

BASF Corporation

## Product Description

Ultramid 8233G HS BK-102 is a heat stabilized, black pigmented, 33% glass fiber reinforced PA6 injection molding compound. The higher glass fiber reinforcement results in excellent strength, stiffness, high temperature performance and dimensional stability with a high resistance to creep under load. The heat stabilizer system extends properties at elevated temperatures. It offers easy processing and good aesthetics. It maintains its inherent chemical resistance to greases, oils and hydrocarbons. It is suited for metal replacement.

## General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 33% Filler by Weight
Additive	• Heat Stabilizer
Features	<ul style="list-style-type: none"><li>• Good Abrasion Resistance</li><li>• Good Chemical Resistance</li><li>• Good Creep Resistance</li><li>• Good Dimensional Stability</li><li>• Good Flow</li><li>• Good Processability</li><li>• Good Stiffness</li><li>• Good Surface Finish</li><li>• Good Thermal Aging Resistance</li><li>• Good Thermal Stability</li><li>• Heat Stabilized</li><li>• High Rigidity</li><li>• High Strength</li><li>• Low Viscosity</li><li>• Semi Crystalline</li></ul>
Uses	<ul style="list-style-type: none"><li>• Automotive Applications</li><li>• Automotive Under the Hood</li><li>• Connectors</li><li>• Fittings</li><li>• Gears</li><li>• Power/Other Tools</li><li>• Wire &amp; Cable Applications</li></ul>
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	5600	MPa	ISO 527-2 <sup>2</sup>
Tensile Strength			
Break, 23°C	99.0	MPa	ASTM D638
Break	99.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Elongation			
Break, 23°C	7.0	%	ASTM D638
Break	7.0	%	ISO 527-2 <sup>2</sup>
Flexural Modulus (23°C)	5200	MPa	ISO 178
Flexural Strength (23°C)	130	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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