

Ultramid® 8233G HS BK-106 (Cond)

Polyamide 6

BASF Corporation

Product Description

Ultramid 8233G HS BK-106 is a heat stabilized, weather resistant, 33% glass fiber reinforced PA6 injection molding compound offering excellent strength, stiffness, high temperature performance and dimensional stability. This balance of engineering properties in combination with excellent processability make it ideal in applications replacing metal, resulting in an overall cost and weight savings.

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">• Good Abrasion Resistance• Good Chemical Resistance• Good Creep Resistance• Good Dimensional Stability• Good Flow• Good Processability• Good Stiffness• Good Surface Finish• Good Thermal Aging Resistance• Good Thermal Stability• Good UV Resistance• Heat Stabilized• High Rigidity• High Strength• Low Viscosity• Semi Crystalline
Uses	<ul style="list-style-type: none">• Automotive Applications• Automotive Exterior Parts• Connectors• Gears• Outdoor Applications
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			
-40°C	11500	MPa	ISO 527-2
80°C	4600	MPa	ISO 527-2
121°C	4200	MPa	ISO 527-2
--	7700	MPa	ISO 527-2 ²
Tensile Stress			
Break, -40°C	215	MPa	ISO 527-2
Break, 80°C	70.0	MPa	ISO 527-2
Break, 121°C	60.0	MPa	ISO 527-2
Break	100	MPa	ISO 527-2 ²
Tensile Strain (Break)	6.0	%	ISO 527-2 ²

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.

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