

Ultramid® 8231G HS BK-102 (Cond)

Polyamide 6

BASF Corporation

Product Description

Ultramid 8231G HS BK-102 is a black pigmented heat stabilized, 14% glass fiber reinforced PA6 injection molding compound. The glass fiber reinforcement enhances performance such as strength, stiffness and heat deflection temperature. The heat stabilizer system extends the properties at elevated temperatures. It also has excellent chemical resistance to greases, oils and hydrocarbons.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 14% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Abrasion Resistance • Good Chemical Resistance • Good Dimensional Stability • Good Flow • Good Processability	• Good Stiffness • Good Surface Finish • Good Thermal Aging Resistance • Good Thermal Stability • Heat Stabilized	• High Gloss • High Strength • Low Viscosity • Semi Crystalline • Warp Resistant
Uses	• Automotive Interior Parts • Gears	• Safety Helmets • Washer	
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	6900	MPa	ISO 527-2
80°C	2300	MPa	ISO 527-2
121°C	1800	MPa	ISO 527-2
--	3100	MPa	ISO 527-2 ²
Tensile Strength			
Break, -40°C	150	MPa	ASTM D638 ISO 527-2
Break, 23°C	60.0	MPa	ASTM D638
Break, 80°C	30.0	MPa	ASTM D638 ISO 527-2
Break, 121°C	40.0	MPa	ASTM D638 ISO 527-2
Break	60.0	MPa	ISO 527-2 ²
Tensile Elongation			
Break, -40°C	3.0	%	ASTM D638
Break, 23°C	20	%	ASTM D638
Break, 80°C	15	%	ASTM D638
Break, 121°C	9.0	%	ASTM D638
Break	20	%	ISO 527-2 ²
Flexural Modulus (23°C)	2210	MPa	ISO 178
Flexural Strength (23°C)	65.0	MPa	ISO 178

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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