

Ultramid® 8231G HS BK-106

Polyamide 6

BASF Corporation

Product Description

Ultramid 8231G HS BK-106 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 • Good UV Resistance • Heat Stabilized • High Gloss • High Strength • Low Viscosity • Semi Crystalline • Warp Resistant
Uses	• Automotive Exterior Parts • Gears • Industrial Applications • Outdoor Applications • Washer
Agency Ratings	• ULC Unspecified Rating
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption			ASTM D570
24 hr	1.4	%	
Saturation	8.1	%	
Equilibrium, 50% RH	2.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	118	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.9	%	ASTM D638
Flexural Modulus (23°C)	4940	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43.0	J/m	ASTM D256
Drop Impact Resistance (23°C)	3	J	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	0.000050	cm/cm/°C	ASTM E831
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	HB		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	105	°C	UL 746
RTI Imp (1.50 mm)	105	°C	UL 746
RTI Elec (1.50 mm)	130	°C	UL 746

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

Ultramid® 8231G HS BK-106
Polyamide 6
BASF Corporation

Wednesday, December 16, 2009

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	250 to 290	°C
Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

Notes

¹ Typical properties: these are not to be construed as specifications.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

www.kedisujiao.com

备注：以上原料物性数据由厂家发布，我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！