

Ultramid® 8231G HS (Cond)

Polyamide 6
BASF Corporation

Product Description

Ultramid 8231G HS is a heat stabilized, 14% glass fiber reinforced PA6 injection molding compound. It is also available in non-heat stabilized (Ultramid 8231) and/or pigmented versions. 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Automotive Applications• Automotive Exterior Parts• Automotive Interior Parts• Connectors• Gears• High Temperature Applications• Lawn and Garden Equipment• Power/Other Tools• Safety Helmets
Agency Ratings	• ASTM D 4066
RoHS Compliance	• RoHS Compliant
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	<ul style="list-style-type: none">• Isothermal Stress vs. Strain (ISO 11403-1)• Secant Modulus vs. Strain (ISO 11403-1)

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-40°C	6600	MPa	ISO 527-2
80°C	2300	MPa	ISO 527-2
121°C	1900	MPa	ISO 527-2
--	2640	MPa	ISO 527-2 ²
Tensile Strength			
Break, -40°C	170	MPa	ASTM D638 ISO 527-2
Break, 23°C	79.0	MPa	ASTM D638
Break, 80°C	20.0	MPa	ASTM D638 ISO 527-2
Break, 121°C	40.0	MPa	ASTM D638 ISO 527-2
Break	80.0	MPa	ISO 527-2 ²
Tensile Elongation			
Break, -40°C	4.0	%	ASTM D638
Break, 23°C	9.0	%	ASTM D638
Break, 80°C	15	%	ASTM D638
Break, 121°C	6.0	%	ASTM D638
Break	9.0	%	ISO 527-2 ²
Flexural Modulus			
-40°C	6430	MPa	ASTM D790
23°C	2400	MPa	ASTM D790
23°C	2210	MPa	ISO 178
Flexural Strength			
-40°C	219	MPa	ASTM D790
23°C	101	MPa	ASTM D790
23°C	65.0	MPa	ISO 178

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 (Cond)

Polyamide 6

BASF Corporation

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.

Wednesday, December 16, 2009

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！