

Ultramid® 8272G HS BK-102 (Cond)

Polyamide 6

BASF Corporation

Product Description

Ultramid 8272G HS BK-102 is a 12% glass fiber reinforced, black pigmented, thermally modified, PA6 blow molding compound offering an excellent balance of engineering properties combined with the melt strength ideally suited for blow molding and other applications requiring ultra high melt viscosity. It exhibits improved strength, stiffness and creep resistance compare to standard blow molding grades. Outstanding permeability and chemical resistance to oils, hydrocarbons and most solvents are other advantages along with excellent stiffness and the ability to fabricate complex shapes for cost effective metal replacements.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 12% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Abrasion Resistance • Good Chemical Resistance • Good Creep Resistance • Good Dimensional Stability • Good Melt Strength • Good Processability	• Good Stiffness • Good Surface Finish • Good Thermal Aging Resistance • Good Thermal Stability • Heat Stabilized • High Strength	• Hydrocarbon Resistant • Oil Resistant • Semi Crystalline • Solvent Resistant • Very high Viscosity
Uses	• Automotive Applications	• Charge Air Systems	• Packaging
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Blow Molding	• Injection Molding	
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-40°C	6400	MPa	ISO 527-2
80°C	1900	MPa	ISO 527-2
121°C	1500	MPa	ISO 527-2
--	3100	MPa	ISO 527-2 ²
Tensile Strength			
Break, -40°C	110	MPa	ASTM D638 ISO 527-2
Break, 23°C	60.0	MPa	ASTM D638
Break, 121°C	25.0	MPa	ASTM D638 ISO 527-2
Break	60.0	MPa	ISO 527-2 ²
Tensile Elongation			ASTM D638
Break, -40°C	2.0	%	
Break, 121°C	20	%	
Flexural Modulus			ASTM D790
-40°C	5580	MPa	
23°C	1970	MPa	
Flexural Strength			ASTM D790
-40°C	265	MPa	
23°C	80.0	MPa	
Impact			
Notched Izod Impact			ASTM D256
-40°C	40.0	J/m	
23°C	155	J/m	
Electrical			
Volume Resistivity (1.50 mm)	> 1.0E+13	ohm·cm	ASTM D257

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.

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！

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Friday, December 18, 2009

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