Ultramid® 8202 HS (Cond)

Polyamide 6

BASF Corporation

Product Description

Ultramid 8202 HS is a heat stabilized, low viscosity, general purpose PA6 injection molding. It possesses the combination of strength and toughness and has excellent chemical and abrasion resistance. The heat stabilizer system extends the retention of properties at the more elevated temperatures. Excellent in filling thin walls or areas.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Heat Stabilizer		
Features	• General Purpose • Good Abrasion Resistance • Good Chemical Resistance • Good Flow	• Good Processability • Good Stiffness • Good Toughness • Heat Stabilized	• High Strength • Homopolymer • Low Viscosity
Uses	• Bearings • Fasteners • Fittings	• Furniture • Gears • Handles	• Thin-walled Parts
Agency Ratings	• ULC Unspecified Rating		
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
80°C	550	MPa	ISO 527-2
121°C	320	MPa	ISO 527-2
--	970	MPa	ISO 527-2 [2]
Tensile Strength			
Yield, -40°C	110	MPa	ASTM D638 ISO 527-2
Yield, 23°C	36.0	MPa	ASTM D638
Yield, 80°C	30.0	MPa	ASTM D638 ISO 527-2
Yield, 121°C	20.0	MPa	ASTM D638 ISO 527-2
Yield	36.0	MPa	ISO 527-2 [2]
Break, 23°C	60.0	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	16	%	ASTM D638
Yield, 80°C	35	%	ASTM D638
Yield, 121°C	40	%	ASTM D638
Yield	16	%	ISO 527-2 [2]
Break, 23°C	> 100	%	ASTM D638
Nominal strain at break	> 50	%	ISO 527-2 [2]
Flexural Modulus			
-40°C	3660	MPa	ASTM D790
23°C	740	MPa	ASTM D790
23°C	770	MPa	ISO 178
Flexural Strength			
-40°C	154	MPa	ASTM D790
23°C	35.0	MPa	ASTM D790
23°C	25.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	43.0	J/m	
23°C	No Break		
Drop Impact Resistance (23°C)	> 271	J	Internal Method

Revision History
Document Created: Wednesday, December 16, 2009
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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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