Ultramid® 8202 (Cond) Polyamide 6 BAS Corporation



Product Description

Ultramid 8202 is a low viscosity, general purpose PA6 injection molding homopolymer exhibiting excellent melt fluidity for filling thin sections. It is also available in heat stabilized (Ultramid 8202 HS) and/or pigmented versions. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance.

General			
Material Status	 Commercial: Active 		
Availability	 North America 		
Features	General PurposeGood Abrasion ResistanceGood Chemical ResistanceGood Stiffness	Good ToughnessHigh FlowHigh Heat ResistanceHigh Strength	HomopolymerLow Viscosity
Uses	BearingsCapsConnectors	 Electrical Parts Fasteners Fittings	• Gears
Agency Ratings	 ASTM D 4066 	• NSF 14	 ULC Unspecified Rating
RoHS Compliance	 RoHS Compliant 		
Appearance	 Colors Available 	 Natural Color 	
Forms	 Pellets 		
Processing Method	 Injection Molding 		
Multi-Point Data	 Isothermal Stress vs. Strain (ISO 11403-1) 	Secant Modulus vs. Strain (ISO 11403-1)	

echanical	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
pact	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

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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.