Ultramid® 8202CQ (Cond)

Polyamide 6

BASF Corporation

Product Description
Ultramid 8202CQ is a low viscosity, PA6 injection molding homopolymer, possessing a modified crystalline structure for increased property performance and faster cycles.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Nucleating Agent		
Features	• Crystalline • Fast Molding Cycle • Good Abrasion Resistance • Good Chemical Resistance • Good Dimensional Stability	• Good Flow • Good Processability • Good Stiffness • Good Thermal Aging Resistance • Homopolymer	• Low Viscosity • Nucleated • Semi Crystalline
Uses	• Bushings • Electrical Parts • Electronic Insulation	• Fittings • Furniture • Gears	• Valves/Valve Parts
Agency Ratings	• ULC Unspecified Rating		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	1220	MPa	ISO 527-2 [2]
Tensile Strength			
Yield, -40°C	142	MPa	ASTM D638 ISO 527-2
Yield, 23°C	43.0	MPa	ASTM D638
Yield	43.0	MPa	ISO 527-2 [2]
Tensile Elongation			
Yield, 23°C	14	%	ASTM D638
Yield	14	%	ISO 527-2 [2]
Break, 23°C	> 100	%	ASTM D638
Nominal strain at break	> 50	%	ISO 527-2 [2]
Flexural Modulus			
-40°C	4280	MPa	ASTM D790
23°C	970	MPa	ASTM D790
23°C	1010	MPa	ISO 178
Flexural Strength			
-40°C	168	MPa	ASTM D790
23°C	42.0	MPa	ASTM D790
23°C	29.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	21.0	J/m	
23°C	160	J/m	

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.