

Ultramid® 8202 L

Polyamide 6

BASF Corporation

Message:

Ultramid 8202 L is an unreinforced, low viscosity, highly lubricated PA6 injection molding homopolymer exhibiting excellent melt fluidity for filling thin sections.

Applications

Ultramid 8202 L is generally recommended for applications such as: gears, fittings, casters, bearings, clips, fasteners, plugs, caps, and filter bowls.

General Information				
Additive		Lubricant		
Features	High Flow			
	Homopolymer			
	Low Viscosity			
	Lubricated			
Uses	Bearings			
	Caps			
	Fasteners			
	Fittings			
	Gears			
	Plugs			
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.13	--	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.2	--	%	
Water Absorption				ASTM D570
24 hr	1.6	--	%	
Saturation	9.5	--	%	
Equilibrium, 50% RH	2.7	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	119	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield, -40°C	125	110	MPa	
Yield, 23°C	79.0	36.0	MPa	
Yield, 80°C	35.0	30.0	MPa	

Yield, 121°C	25.0	21.0	MPa	
Break, 23°C	75.0	60.0	MPa	
Tensile Elongation				ASTM D638
Yield, 23°C	4.0	16	%	
Yield, 80°C	42	35	%	
Yield, 121°C	36	40	%	
Break, 23°C	55	> 100	%	
Flexural Modulus				ASTM D790
-40°C	3010	3660	MPa	
23°C	2830	740	MPa	
65°C	500	--	MPa	
90°C	350	--	MPa	
121°C	305	--	MPa	
Flexural Strength				ASTM D790
-40°C	170	155	MPa	
23°C	110	35.0	MPa	
65°C	30.0	--	MPa	
90°C	20.0	--	MPa	
121°C	20.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	50	45	J/m	
23°C	60 J/m	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	178	--	°C	
1.8 MPa, Unannealed	65.0	--	°C	
Peak Melting Temperature	220	--	°C	ASTM D3418
CLTE - Flow	8.3E-5	--	cm/cm/°C	ASTM E831
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	240 to 285		°C	
Mold Temperature	65.0 to 80.0		°C	
Injection Pressure	3.45 to 10.3		MPa	
Injection Rate	Fast			

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