

Ultraform® N 2310 P Q600

Acetal (POM) Copolymer

BASF Corporation

Message:

Ultraform N 2310 P Q600 is a general-purpose injection molding POM grade containing special lubricant. Low frictional coefficient giving extremely low wear with otherwise unaltered mechanical properties.

Applications

Typical applications include spring elements, clips, gears and other applications requiring low friction and wear.

General Information			
Additive	Lubricant		
Features	General Purpose		
	Good Wear Resistance		
	Low Friction		
	Lubricated		
Uses	Gears		
	General Purpose		
	Springs		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.50	cm³/10min	ISO 1133
Molding Shrinkage			
Flow : 3.18 mm	2.0	%	
Across Flow	2.1	%	ISO 294-4
Flow	2.1	%	ISO 294-4
Water Absorption			
Saturation	0.80	%	ASTM D570
Saturation, 23°C	0.80	%	ISO 62
Equilibrium, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2600	MPa	ISO 527-2

Tensile Strength (Yield, 23°C)	61.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, 23°C)	10	%	ASTM D638, ISO 527-2
Nominal Tensile Strain at Break (23°C)	30	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	1900	MPa	
1000 hr	1300	MPa	
Flexural Modulus (23°C)	2340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	180	kJ/m ²	
23°C	200	kJ/m ²	
Notched Izod Impact			ASTM D256
-40°C	55	J/m	
23°C	64	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	154	°C	ASTM D648
1.8 MPa, Unannealed	99.0	°C	ASTM D648
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Peak Melting Temperature	166	°C	ASTM D3418, ISO 3146
CLTE - Flow			
--	6.0E-5	cm/cm/°C	ASTM E831
--	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹	1.0E+12	ohms	ASTM D257, IEC 60093
Volume Resistivity			
1.50 mm	1.0E+12	ohms · cm	ASTM D257
--	1.0E+12	ohms · cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.80		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	5.0E-3		
Comparative Tracking Index	600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 110	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	190 to 230	°C	

Mold Temperature	60.0 to 120	°C
Injection Pressure	3.50 to 7.00	MPa
NOTE		
1.	1.5 mm	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

