

Ultraform® N2310P Q600

Acetal (POM) Copolymer

BASF Corporation

Product Description

Ultraform N2310P Q600 is a general-purpose injection molding POM grade containing special lubricant. Low frictional coefficient giving extremely low wear with otherwise unaltered mechanical properties.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Lubricant
Features	• General Purpose • Good Flow • Good Wear Resistance • Low Friction • Lubricated
Uses	• Gears • General Purpose • Springs
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	--	1.40 g/cm ³	ASTM D792
	--	1400 kg/m ³	ISO 1183 ²
Melt volume-flow rate (190°C/2.16 kg)	7.50	cm ³ /10min	ISO 1133 ²
Molding Shrinkage			
Flow: 3.18 mm	2.0	%	ASTM D955
Across Flow	2.1	%	ISO 294-4
Flow	2.1	%	ISO 294-4
Water Absorption			
Saturation	0.80	%	ASTM D570 ISO 62 ²
Equilibrium, 50% RH	0.20	%	ASTM D570
Equilibrium	0.20	%	ISO 62 ²

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	2600	MPa	ISO 527-2 ²
Tensile Strength			
Yield, 23°C	61.0	MPa	ASTM D638
Yield	61.0	MPa	ISO 527-2 ²
Tensile Elongation			
Yield, 23°C	10	%	ASTM D638
Yield	10	%	ISO 527-2 ²
Nominal strain at break	30	%	ISO 527-2 ²
Tensile Creep Modulus			ISO 899-1 ²
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)	5.50	kJ/m ²	ISO 179/1eA ²
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	55.0	J/m	
23°C	64.1	J/m	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Tuesday, December 15, 2009

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	105	°C	ISO 75-2 ²
Melting Temperature	166	°C	ASTM D3418 ISO 3146
CLTE - Flow			
--	0.000060	cm/cm/°C	ASTM E831
--	0.00011	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	1.0E+12	ohms	ASTM D257 IEC 60093 ²
Volume Resistivity			
1.50 mm	1.0E+12	ohm·cm	ASTM D257
--	1.0E+10	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	3.80		
1 MHz	3.80		
Dissipation Factor			IEC 60250 ²
100 Hz	10		
1 MHz	50		
Comparative tracking index	600		IEC 60112 ²
Electric strength	40	kV/mm	IEC 60243-1 ²
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	
Injection Rate	Fast		

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.

³ 1.5 mm

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