

Ultraform® H2320 006 Q600

Acetal (POM) Copolymer

BASF Corporation

Product Description

Ultraform H 2320 006 Q600 is a POM with high molecular weight grade for injection molding. It conforms to FDA requirements of 21 CFR 177.2470.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Mold Release		
Features	• Copolymer	• Good Flow	• High Molecular Weight
Uses	• Bearings	• Household Goods	• Thick-walled Parts
	• Conveyor Parts	• Profiles	• Valves/Valve Parts
Agency Ratings	• FDA 21 CFR 177.1500	• FDA 21 CFR 177.2440(d)(2)	• NSF 61
	• FDA 21 CFR 177.2440(a)	• FDA 21 CFR 177.2440(e)(2)	• USP Class VI
	• FDA 21 CFR 177.2440(b)	• FDA 21 CFR 177.2470	
	• FDA 21 CFR 177.2440(c)	• NSF 14	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2)	• Specific Volume vs. Temperature (ISO 11403-2)
	• Secant Modulus vs. Strain (ISO 11403-1)	• Specific Heat vs. Temperature (ISO 11403-2)	• Viscosity vs. Shear Rate (ISO 11403-2)

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)	2.90	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	64.0	MPa	ASTM D638
Yield, 80°C	33.0	MPa	ISO 527-2
Yield	64.0	MPa	ISO 527-2 ²
Tensile Elongation			
Yield, 23°C	11	%	ASTM D638
Yield	11	%	ISO 527-2 ²
Nominal strain at break	30	%	ISO 527-2 ²
Tensile Creep Modulus			ISO 899-1 ²
1 hr	1800	MPa	
1000 hr	1300	MPa	
Flexural Modulus			
23°C	2450	MPa	ASTM D790
23°C	2600	MPa	ISO 178

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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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Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ²
-30°C	5.50	kJ/m ²	
23°C	6.00	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	200	kJ/m ²	
23°C	260	kJ/m ²	
Notched Izod Impact			
-40°C	69.4	J/m	ASTM D256
23°C	80.1	J/m	ASTM D256
-40°C	5.00	kJ/m ²	ISO 180
23°C	6.00	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	154	°C	ASTM D648
1.8 MPa, Unannealed	96.0	°C	ASTM D648
1.8 MPa	95.0	°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+13	ohms	ASTM D257 IEC 60093 ²
Volume Resistivity			
1.50 mm	1.0E+13	ohm·cm	ASTM D257
--	1.0E+11	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
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	HB		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	90.0	°C	UL 746
RTI Imp (1.50 mm)	90.0	°C	UL 746
RTI Elec (1.50 mm)	105	°C	UL 746
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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