

Ultraform® H 2320 006 UNC Q600

Acetal (POM) Copolymer

BASF Corporation

Message:

Ultraform H 2320 006 UNC Q600 is a POM with high molecular weight grade for injection molding.

Applications

Typical applications include thick-walled articles.

General Information	
UL YellowCard	E36632-531676
Features	Copolymer
	High Molecular Weight
Uses	Thick-walled Parts
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Specific Heat vs. Temperature (ISO 11403-2)
	Specific Volume 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, ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.90	cm ³ /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
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2600	MPa	ISO 527-2
Tensile Strength			

Yield, 23°C	64.0	MPa	ASTM D638, ISO 527-2
Yield, 80°C	33.0	MPa	ISO 527-2
Tensile Elongation (Yield, 23°C)	11	%	ASTM D638, ISO 527-2
Nominal Tensile Strain at Break (23°C)	30	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	1800	MPa	
1000 hr	1300	MPa	
Flexural Modulus			
23°C	2450	MPa	ASTM D790
23°C	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.5	kJ/m ²	
23°C	6.0	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	J/m	ASTM D256
23°C	80	J/m	ASTM D256
-40°C	5.0	kJ/m ²	ISO 180
23°C	6.0	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, Unannealed	95.0	°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+13	ohms	ASTM D257, IEC 60093
Volume Resistivity			
1.50 mm	1.0E+13	ohms · cm	ASTM D257
--	1.0E+13	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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