

Ultraform® N 2320 U03 UNC Q600

Acetal (POM) Copolymer

BASF Corporation

Message:

Ultraform N 2320 U03 UNC Q600 is a rapidly freezing UV stabilized general-purpose injection molding grade.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	General Purpose		
	Good UV Resistance		
Uses	General Purpose		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1)		
	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)	7.50	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	63.0	MPa	ASTM D638, ISO 527-2
Yield, -40°C	93.0	MPa	ISO 527-2
Yield, 80°C	33.0	MPa	ISO 527-2
Tensile Elongation (Yield, 23°C)	9.4	%	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	1400	MPa	
Flexural Modulus (23°C)	4000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.0	kJ/m ²	
23°C	5.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	180	kJ/m ²	
23°C	200	kJ/m ²	
Notched Izod Impact			
-40°C	60	J/m	ASTM D256
23°C	69	J/m	ASTM D256
23°C	6.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	160	°C	ASTM D648
1.8 MPa, Unannealed	110	°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
Comparative Tracking Index	600	V	IEC 60112

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