

Ultraform® N2320 U03 UNC Q600

Acetal (POM) Copolymer

BASF Corporation

Product Description

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

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• UV Stabilizer
Features	• General Purpose
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Isochronous Stress vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2) • Isothermal Stress vs. Strain (ISO 11403-1) • Specific Heat vs. Temperature (ISO 11403-2) • Secant Modulus vs. Strain (ISO 11403-1) • Specific Volume vs. Temperature (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)	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	63.0	MPa	ASTM D638
Yield, -40°C	93.0	MPa	ISO 527-2
Yield, 80°C	33.0	MPa	ISO 527-2
Yield	63.0	MPa	ISO 527-2 ²
Tensile Elongation			
Yield, 23°C	9.4	%	ASTM D638
Yield	9.4	%	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	1400	MPa	
Flexural Modulus (23°C)	4000	MPa	ISO 178

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

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ²
-30°C	5.00	kJ/m ²	
23°C	5.50	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	59.8	J/m	ASTM D256
23°C	69.4	J/m	ASTM D256
23°C	6.50	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	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
Comparative tracking index	600		IEC 60112 ²

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.

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