



# Ultraform® N 2320 U03 UNC Q600

BASF Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

## General Information

### 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	• Copolymer	• General Purpose	• UV Stabilized
Uses	• General Purpose		
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.40		ASTM D792
Density	1.40	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.50	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage - Flow (0.125 in)	0.020	in/in	
Molding Shrinkage			ISO 294-4
Across Flow	2.1	%	
Flow	2.1	%	
Water Absorption (Saturation)	0.80	%	ASTM D570
Water Absorption (Saturation, 73°F)	0.80	%	ISO 62
Water Absorption (Equilibrium, 50% RH)	0.20	%	ASTM D570
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	377000	psi	ISO 527-2
Tensile Strength (Yield, 73°F)	9140	psi	ASTM D638
Tensile Stress			ISO 527-2
Yield, -40°F	13500	psi	
Yield, 73°F	9140	psi	
Yield, 176°F	4790	psi	
Tensile Elongation (Yield, 73°F)	9.4	%	ASTM D638
Tensile Strain (Yield, 73°F)	9.4	%	ISO 527-2
Nominal Tensile Strain at Break (73°F)	30	%	ISO 527-2
Tensile Creep Modulus (1 hr)	261000	psi	ISO 899-1
Tensile Creep Modulus (1000 hr)	203000	psi	ISO 899-1
Flexural Modulus (73°F)	580000	psi	ISO 178

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Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	2.4	ft·lb/in <sup>2</sup>	
73°F	2.6	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-22°F	86	ft·lb/in <sup>2</sup>	
73°F	95	ft·lb/in <sup>2</sup>	
Notched Izod Impact			ASTM D256
-40°F	1.1	ft·lb/in	
73°F	1.3	ft·lb/in	
Notched Izod Impact Strength (73°F)	3.1	ft·lb/in <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ASTM D648
Heat Deflection Temperature (66 psi, Unannealed)	313	°F	ISO 75-2/B
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	230	°F	
Heat Deflection Temperature (264 psi, Unannealed)	203	°F	ISO 75-2/A
Peak Melting Temperature	331	°F	ASTM D3418
Melting Temperature (DSC)	331	°F	ISO 3146
CLTE - Flow	3.3E-5	in/in/°F	ASTM E831
CLTE - Flow	6.1E-5	in/in/°F	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.