

## BASF Ultraform W 2320 003 UNC Q600 POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

### Material Notes:

Ultraform W2320 003 UNC Q600 is a very easy flowing and rapidly solidifying injection molding POM grade for use where processing is extremely difficult but mechanical properties are lower. Contains a mold release agent. It conforms to FDA requirements of 21 CFR 177.2470.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultraform-W-2320-003-UNC-Q600-POM.php](http://www.lookpolymers.com/polymer_BASF-Ultraform-W-2320-003-UNC-Q600-POM.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.; ISO 62
Melt Flow	29.4 g/10 min @Load 2.16 kg, Temperature 190 °C	29.4 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	145 MPa	21000 psi	ISO 2039-1
Tensile Strength, Yield	65.0 MPa	9430 psi	50mm/min; ISO 527
Elongation at Break	24 %	24 %	50mm/min; ISO 527
Elongation at Yield	7.5 %	7.5 %	50mm/min; ISO 527
Modulus of Elasticity	2.80 GPa	406 ksi	ISO 527
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/A
	5.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/A
Charpy Impact Unnotched	15.0 J/cm <sup>2</sup>	71.4 ft-lb/in <sup>2</sup>	ISO 179
	15.0 J/cm <sup>2</sup> @Temperature -30.0 °C	71.4 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 179
	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 179

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
Tensile Creep Modulus, 1 hour	2100 MPa	305000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	1350 MPa	196000 psi	ISO 899

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	11.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.11 $\mu\text{in}/\text{in}\cdot\text{°F}$	DIN 53752
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	167 °C	333 °F	DIN 53765
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 75
Vicat Softening Point	150 °C	302 °F	(50 °C/h / 50N) - B/50; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0050	0.0050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	Test Solution A; IEC 60112
	600 V	600 V	Test Solution B; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 230 °C	374 - 446 °F	

Mold Temperature Processing Properties	60.0 - 120 °C Metric	140 - 248 °F English	Comments
<b>Descriptive Properties</b>		<b>Value</b>	<b>Comments</b>
Color		Natural	
Commercial Status		Active America	
Impact Modified		No	
NSF Std. 61		Yes	
Primary Processing Technique		Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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