

BASF Ultraform N 2200 G53 UNC Q600 25% Glass Filled POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

Material Notes:

Ultraform N2200 G53 UNC Q600 is a 25% glass fiber reinforced POM injection molding grade with enhanced stiffness and toughness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-N-2200-G53-UNC-Q600-25-Glass-Filled-POM.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	ISO 62
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23°C/50% R.H.; ISO 62
Melt Flow	5.5 g/10 min @Load 2.16 kg, Temperature 190 °C	5.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	190 MPa	27600 psi	ISO2039
Tensile Strength at Break	130 MPa	18900 psi	5mm/min; ISO 527
Tensile Stress	10.0 MPa @Strain 0.200 %, Time 3.60e+7 sec	1450 psi @Strain 0.200 %, Time 10000 hour	ISO 899-1
	12.0 MPa @Strain 0.200 %, Time 3.60e+6 sec	1740 psi @Strain 0.200 %, Time 1000 hour	ISO 899-1
	15.0 MPa @Strain 0.200 %, Time 3600 sec	2180 psi @Strain 0.200 %, Time 1.00 hour	ISO 899-1
	31.0 MPa @Strain 0.600 %, Time 3.60e+6 sec	4500 psi @Strain 0.600 %, Time 1000 hour	ISO 899-1
	32.0 MPa @Strain 0.600 %, Time 3.60e+7 sec	4640 psi @Strain 0.600 %, Time 10000 hour	ISO 899-1
	35.0 MPa @Strain 0.500 %, Time 3600 sec	5080 psi @Strain 0.500 %, Time 1.00 hour	ISO 899-1

Mechanical Properties	Metric ¹ Pa	English ¹	Comments
	@Strain 1.80 %, Time 3.60e+7 sec	@Strain 1.80 %, Time 10000 hour	ISO 899-1
	55.0 MPa	7980 psi	
	@Strain 1.40 %, Time 3.60e+6 sec	@Strain 1.40 %, Time 1000 hour	ISO 899-1
	58.0 MPa	8410 psi	
	@Strain 0.800 %, Time 3600 sec	@Strain 0.800 %, Time 1.00 hour	ISO 899-1
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	90.0 MPa	13100 psi	ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
	125 MPa	18100 psi	ISO 527
	@Temperature 40.0 °C	@Temperature 104 °F	
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
Modulus of Elasticity	8.80 GPa	1280 ksi	ISO 527
	2.50 GPa	363 ksi	SIO 527
	@Temperature 140 °C	@Temperature 284 °F	
	5.00 GPa	725 ksi	SIO 527
	@Temperature 100 °C	@Temperature 212 °F	
	8.10 GPa	1170 ksi	SIO 527
	@Temperature 40.0 °C	@Temperature 104 °F	
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180
	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179
	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179
	0.880 J/cm ²	4.19 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties 1000 hours	Metric MPa	English psi	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	4.00 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 23.0 - 55.0 $^{\circ}\text{C}$	2.22 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 73.4 - 131 $^{\circ}\text{F}$	DIN 53752
Melting Point	168 $^{\circ}\text{C}$	334 $^{\circ}\text{F}$	DIN 53765
Maximum Service Temperature, Air	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	163 $^{\circ}\text{C}$	325 $^{\circ}\text{F}$	ISO 75
Vicat Softening Point	160 $^{\circ}\text{C}$	320 $^{\circ}\text{F}$	(50 $^{\circ}\text{C}/\text{h}$ / 50N) - B/50; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	IEC 60250
	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	43.0 kV/mm	1090 kV/in	IEC 60243-1
Dissipation Factor	0.0040 @Frequency 100 Hz	0.0040 @Frequency 100 Hz	IEC 60250
	0.0070 @Frequency 1.00e+6 Hz	0.0070 @Frequency 1.00e+6 Hz	IEC 60250
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 $^{\circ}\text{C}$	374 - 446 $^{\circ}\text{F}$	
Mold Temperature	60.0 - 120 $^{\circ}\text{C}$	140 - 248 $^{\circ}\text{F}$	

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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