

## BASF Ultraform® N2200 G43 POM

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

Description: Is a POM, injection-molding grade for parts requiring high stiffness and strength together with good mold release. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultraform-N2200-G43-POM.php](http://www.lookpolymers.com/polymer_BASF-Ultraform-N2200-G43-POM.php)

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.90 %	0.90 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23°C; 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ISO 2577
Melt Flow	6.622 g/10 min @Load 2.16 kg, Temperature 190 °C	6.622 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	164 MPa @Load 36.5 kg, Time 30.0 sec	23800 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength at Break	115 MPa	16700 psi	5 mm/min; ISO 527-2
Elongation at Break	3.0 %	3.0 %	ISO 527-2
Modulus of Elasticity	7.30 GPa	1060 ksi	ISO 527-2
Izod Impact, Notched (ISO)	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
	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
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup> @Temperature -30.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	5.00 J/cm <sup>2</sup> @Temperature 23.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	0.750 J/cm <sup>2</sup>	3.57 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	4500 MPa	653000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 µin/in-°F	DIN 53752
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	170 °C	338 °F	DIN 53765
Maximum Service Temperature, Air	110 °C	230 °F	
Deflection Temperature at 1.8 MPa (264 psi)	161 °C	322 °F	ISO 75-2
Vicat Softening Point	160 °C	320 °F	ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.1	4.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	43.0 kV/mm	1090 kV/in	IEC 60243-1
Dissipation Factor	0.0040	0.0040	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0070	0.0070	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 60112

Electrical Properties	600 V Metric	600 V English	Test solution B; IEC 60112 Comments
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Processing Temperature	200 °C	392 °F	Hopper Throat
Zone 1	205 °C	401 °F	Feed zone
Zone 2	205 °C	401 °F	Compression
Zone 3	210 °C	410 °F	Metering-zone
Zone 4	210 °C	410 °F	Nozzle
Melt Temperature	190 - 230 °C	374 - 446 °F	Injection-molding
	210 °C	410 °F	Optimal
Mold Temperature	60.0 - 120 °C	140 - 248 °F	Injection-molding
	100 °C	212 °F	Optimal
Drying Temperature	100 °C	212 °F	
Dry Time	3 hour	3 hour	

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Peripheral screw speed	<0.3 m/s	
Primary Processing Technique	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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