

# Ultraform® N2200 G53 UNC Q600

Acetal (POM) Copolymer

BASF Corporation

## Product Description

Ultraform N 2200 G53 UNC Q600 is a 25% glass fiber reinforced POM injection molding grade with enhanced stiffness and toughness.

## General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight
Features	• Good Stiffness • Good Toughness
Uses	• Conveyor Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	<ul style="list-style-type: none"> <li>• Isochronous Stress vs. Strain (ISO 11403-1)</li> <li>• Isothermal Stress vs. Strain (ISO 11403-1)</li> <li>• Secant Modulus vs. Strain (ISO 11403-1)</li> <li>• Shear Modulus vs. Temperature (ISO 11403-2)</li> <li>• Specific Heat vs. Temperature (ISO 11403-2)</li> <li>• Specific Volume vs. Temperature (ISO 11403-2)</li> <li>• Viscosity vs. Shear Rate (ISO 11403-2)</li> </ul>

Physical	Nominal Value	Unit	Test Method
Density	1580	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt volume-flow rate (190°C/2.16 kg)	4.00	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	1.4	%	
Water Absorption			ISO 62 <sup>2</sup>
Saturation	0.90	%	
Equilibrium	0.15	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	8800	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress			
Break, -40°C	173	MPa	ISO 527-2
Break, 80°C	79.0	MPa	ISO 527-2
Break	130	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	3.0	%	ISO 527-2 <sup>2</sup>
Tensile Creep Modulus			ISO 899-1 <sup>2</sup>
1 hr	7500	MPa	
1000 hr	5800	MPa	

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA <sup>2</sup>
-30°C	8.50	kJ/m <sup>2</sup>	
23°C	9.00	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-30°C	60	kJ/m <sup>2</sup>	
23°C	55	kJ/m <sup>2</sup>	

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://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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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 <sup>2</sup>
0.45 MPa		165 °C	
1.8 MPa		163 °C	
Melting Temperature (DSC)		168 °C	ISO 3146
CLTE - Flow	0.000030	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+12	ohms	IEC 60093 <sup>2</sup>
Volume resistivity	1.0E+10	ohm·m	IEC 60093 <sup>2</sup>
Relative Permittivity			IEC 60250 <sup>2</sup>
100 Hz	4.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250 <sup>2</sup>
100 Hz	20		
1 MHz	50		
Comparative tracking index	600		IEC 60112 <sup>2</sup>
Electric strength	43	kV/mm	IEC 60243-1 <sup>2</sup>
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 110	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	190 to 230	°C	
Mold Temperature	60.0 to 120	°C	
Injection Pressure	3.50 to 7.00	MPa	
Injection Rate	Fast		

**Notes**

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

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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