

Ultraform® N2200 G43

Acetal (POM) Copolymer

BASF Corporation

Product Description				
Injection molding grade for parts requiring high stiffness and strength together with good mold release.				
General				
Material Status	• Commercial: Active			
Availability	• Europe			
Filler / Reinforcement	• Glass Fiber Reinforcement, 20% Filler by Weight			
Features	• Good Mold Release	• High Stiffness	• High Strength	
RoHS Compliance	• RoHS Compliant			
Forms	• Granules			
Processing Method	• Injection Molding			
Resin ID (ISO 1043)	• POM-GF20			
Physical		Nominal Value	Unit	Test Method
Density		1.54	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)		4.30	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C		0.90	%	
Equilibrium, 23°C, 50% RH		0.15	%	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus (23°C)		7300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)		115	MPa	ISO 527-2
Tensile Strain (Break, 23°C)		3.0	%	ISO 527-2
Tensile Creep Modulus (1000 hr)		4500	MPa	ISO 899-1
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C		6.5	kJ/m ²	
23°C		7.5	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C		50	kJ/m ²	
23°C		50	kJ/m ²	
Hardness		Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)		164	MPa	ISO 2039-1
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
1.8 MPa, Unannealed		161	°C	
Melting Temperature (DSC)		170	°C	ISO 3146
CLTE - Flow (23 to 55°C)		0.000050	cm/cm/°C	ISO 11359-2
Electrical		Nominal Value	Unit	Test Method
Surface Resistivity		1.0E+14	ohms	IEC 60093
Volume Resistivity		1.0E+14	ohm·cm	IEC 60093
Relative Permittivity (23°C, 1 MHz)		4.10		IEC 60250
Dissipation Factor (23°C, 1 MHz)		0.0070		IEC 60250
Comparative Tracking Index (Solution A)		600	V	IEC 60112
Electric Strength (23°C)		85	kV/mm	IEC 60243-1
Flammability		Nominal Value	Unit	Test Method
Flame Rating - UL (1.60 mm)		HB		UL 94
Additional Information				
The value listed as Melting Temperature (DSC), ISO 3146, was tested in accordance with ISO 3146.				
Electric Strength, IEC 60243-1, K20/P50, 23°C: 85 kV/mm				
Maximum Service Temperature (Short Cycle Operation): 110°C				
POM-K, M-GNR, 02-003, GF20				
Injection		Nominal Value	Unit	
Processing (Melt) Temp		190 to 230	°C	
Mold Temperature		60.0 to 120	°C	

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 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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Notes

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¹ Typical properties: these are not to be construed as specifications.

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