

POM-20%GF refers to a type of polyoxymethylene (POM) that is reinforced with 20% glass fiber. POM, also known as acetal or polyacetal, is a thermoplastic polymer known for its high strength, stiffness, and excellent dimensional stability. The addition of 20% glass fiber reinforcement further enhances these properties, providing increased tensile strength, improved impact resistance, and reduced creep.

**Chemical Description**

Description	Value
Material Type	Semi-Crystalline Thermoplastic
Chemical Name	POM Polyoxymethylene Acetal Homopolymer
Additives	20% Glass filled
Color	Natural
UV Resistant	No

**Physical Properties**

Property	Maximum Unless Range is Specified
Density,lbs/in <sup>3</sup>	0.056
Water Absorption, 24 hrs, Immersion,% by wt.	0.15
Coefficient of Linear Thermal Expansion, x10-5 in./in./°F	4.72
Heat Deflection Temp,°F at 263psi	311
Melting Point Temp,°F	347
Max Continuous Operating Temp,°F	185
Minimum Operating Temp,°F	-58
Flammability Rating,UL94	HB
Dielectric Strength,V/mil	452
Dielectric Constant at 1 MHz	3.8

**Mechanical Properties**

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	7.7
Tensile Modulus,ksi	350
Compressive Strength,ksi	14.5
Flexural Strength,ksi	14.5
Flexural Modulus,ksi	650
Elongation at Break	10%
Hardness Rockwell	M87
Notched Izod Impact Strength,ft-lb/in	0.9

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.