

PP-30%GF refers to polypropylene that is reinforced with 30% glass fiber. It is a composite material that combines the benefits of polypropylene with the added strength and stiffness provided by the glass fibers. The glass fibers enhance the mechanical properties of the PP, making it stronger, more rigid, and more resistant to impact.

Chemical Description

Description	Value
Material Type	Semi-Crystalline Thermoplastic
Chemical Name	PP Polypropylene
Additives	30% Glass filled
Color	Natural
UV Resistant	No

Physical Properties

Property	Maximum Unless Range is Specified
Specific gravity,g/cm3	1.14
Coefficient of Linear Thermal Expansion, K-1*10-4	0.7
Heat Deflection Temp,HDT/B,°C	155
Heat Deflection Temp,HDT/A,°C	140
Vicat-soften Point Temp,VST/B/50,°C	130
Vicat-soften Point Temp,VST/A/50,°C	160
Max Continuous Operating Temp,°C	100
Minimum Operating Temp,°C	5
Flammability Rating,UL94	HB
Dielectric Strength,kV/mm	40
Dielectric Constant at 1 MHz	2.6
Thermal Conductivity,W/(m*K)	0.27

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength at Break,MPa	85
Elasticity Modulus,Mpa	6,500
Flexural Strength,MPa	120
Elongation at Break	3%
Notched Izod Impact Strength,kJ/m2	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.