# PET-30%GF

PET-30%GF refers to Polyethylene Terephthalate reinforced with 30% Glass Fiber. It is a composite material that combines the properties of PET with the added strength and stiffness provided by the glass fiber reinforcement. The addition of glass fibers enhances the mechanical properties of PET, making it stronger and more rigid.

## Chemical Description

| Description | Value |
|---|---|
| Material Type | Semi-Crystalline Thermoplastic |
| Chemical Name | PET Polyethylene Terephthalate |
| Additives | 30% Glass filled |
| Color | Natural |
| UV Resistant | No |

## Physical Properties

| Property | Maximum Unless Range is Specified |
|---|---|
| Density,g/cm3 | 1.56 |
| Heat Distortion Temp,°F at 263psi | 435 |
| Melting Point Temp,°F | 486 |
| Vicat Softening Temp,°F | 446 |
| Glass Transition Temp,°F | 194 |
| Flammability Rating,UL94 | HB |
| Electric Strength,V/mil | 810 |
| Relative Permittivity at 1 MHz | 3.8 |
| Thermal Conductivity,BTU-in/ft²-hr-°F | 2.0 |

## Mechanical Properties

| Property | Maximum Unless Range is Specified |
|---|---|
| Tensile Strength at yield,ksi | 22.9 |
| Tensile Modulus,ksi | 1,600 |
| Compressive Strength,ksi | 33.4 |
| Flexural Strength,ksi | 33.4 |
| Flexural Modulus,ksi | 1,300 |
| Tensile Strain | 2.5% |
| Hardness Rockwell | M100/R120 |

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.