

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

Chemical Description

Description	Value
Material Type	Imiized Amorphous Thermoplastic
Chemical Name	Glass Filled Polyetherimide
Additives	30% Glass
Color	Tan
UV Resistant	Yes

Physical Properties

Property	Maximum Unless Range is Specified
Density,lbs/in3	0.055
Water Absorption, 24 hrs, Immersion,% by wt.	0.21
Coefficient of Linear Thermal Expansion, x10-5 in./in./°F	1.1
Heat Deflection Temp,°F at 263psi	410
Max Continuous Operating Temp,°F	340
Minimum Operating Temp,°F	-58
Flammability Rating,UL94	V-0
Dielectric Strength,V/mil	770
Dielectric Constant at 1 MHz	3.7
Thermal Conductivity,BTU-in/ft ² -hr-°F	1.56

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	17
Tensile Modulus,ksi	800
Compressive Strength,ksi	32
Compressive Modulus,ksi	625
Flexural Strength,ksi	27
Flexural Modulus,ksi	850
Elongation at Break	3%
Hardness Rockwell	114/R127
Notched Izod Impact Strength,ft-lb/in	1

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.