

PBT-30% Glass Filled refers to a composite material that combines Polybutylene Terephthalate (PBT) with 30% glass fiber reinforcement. The glass fibers are added to the PBT matrix to enhance its mechanical properties, such as increased strength, stiffness, and dimensional stability.

Chemical Description

Description	Value
Material Type	Thermoplastic
Chemical Name	Polybutylene Terephthalate
Additives	30% glass fiber reinforcement
UV Resistant	No

Physical Properties

Property	Maximum Unless Range is Specified
Water Absorption , (23°C/24hrs), %	0.05
Specific Gravity	1.52
Specific Volume,cm3/g	0.65
Mold Shrinkage, flow, 3.2 mm	0.5%
Melt Flow Rate, 250°C/2.16 kgf,g/10 min	11.7

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Stress,MPa	106
Tensile Modulus,MPa	8,660
Flexural Stress,yield,MPa	174
Flexural Modulus,MPa	7,810
Hardness,Rockwell R	125
Izod Impact-Notched,J/m	128

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.