

Product Data Sheet

Note: Property values will vary with material lots and with the configuration and size of the end item. These published values should be used in the preliminary selection process only. Final selection and determination of suitability are the responsibility of the customer. Fibrtec can provide further information as it applies to a specific application at the customer's request.

Matrix Style: Fiberglass / PA 6 PN: 700305

Features:

- 250°F max service temperature
- Near zero thermal expansion
- Excellent toughness
- Excellent chemical resistance
- X-ray transparent
- High impact strenght
- Excellent wear resistance
- Excellent vibration dampening

Mechanical Properties

Property	Unit	0°/90° fiber orientation	0° fiber orientation
Flexural Strength	ksi	75	150
Flexural Modulus	msi	2.7	4.9
Tensile Strength	ksi	51	126
Tensile Modulus	msi	3.2	5.5
Compression Strength	ksi	54	92
Compression Modulus	msi	3.7	4.9
Notched Izod Impact	ft lb/in @ 72° F	31.2	
Notched Izod Impact	ft lb/in @ -20° F	35.4	
Heat Deflection Temperature	f	440	
Max Service Temperature	f	250	
Density	g/cc	1.894	
Linear Density	g/m	1.512	
Fiber Volume %	%	55	
Resin wt %	%	27.09	

Tooling requirements:

Corrosion resistant steel, Steel, or Aluminum

Molding Parameters:

460-500°F , 100 PSI min, Press time .5-10 min
 depending on part thickness and mold mass