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# Product Data Sheet

## Molded Thermoplastic Composite Materials

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. AMC can provide further information as it applies to a specific application at the customers request.

### Features:

250°F max service temperature Excellent toughness Excellent vibration dampening Superior strength and stiffness Excellent wear resistance High Impact strength

#### **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
Short Beam Shear	Ksi	7.8	
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	1.77	

#### Tooling requirements:

Aluminum or steel molds.