

Cytec Thornel® P-55 Carbon Fiber/Epoxy Advanced Composite System

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Epoxy , Epoxy/Carbon Fiber Composite , Filled/Reinforced Thermoset

Material Notes:

Data provided by the manufacturer, Amoco Performance Products, Inc. Measured in proprietary aerospace grade epoxy formulations at 0.62 fiber content by volume. Thornel® products were sold by Amoco and are now owned by Cytec.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-Thornel-P-55-Carbon-FiberEpoxy-Advanced-Composite-System.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 1.70 g/cc | 0.0614 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------|------------|----------|
| Tensile Strength, Ultimate | 890 MPa | 129000 psi | |
| Tensile Modulus | 220 GPa | 31900 ksi | |
| Compressive Yield Strength | 510 MPa | 74000 psi | |
| Shear Strength | 55.0 MPa | 7980 psi | |

| Thermal Properties | Metric | English | Comments |
|----------------------|------------|-----------------------------------|----------|
| Thermal Conductivity | 74.0 W/m-K | 514 BTU-in/hr-ft ² -°F | |

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