

TECHNICAL DATA SHEET

GP UD PEI Carbon Tape



Gordon Plastics UD PEI Standard Modulus Carbon Tape

32% resin content by weight FAW 145gsm
Fiber type AS4D
Tape Width 8.69"
Tape Thickness 0.0063" as measured

MECHANICAL PROPERTIES

| Property | Test Method | Results |
|----------------------|-------------|-------------------|
| Tensile Strength 0° | ASTM D 3039 | 2296 MPa 333 ksi |
| Tensile Modulus 0° | ASTM D 3039 | 145 GPa 21 Msi |
| Flexural Strength 0° | ASTM D 790 | 1523 MPa 221 ksi |
| Flexural Modulus 0° | ASTM D 790 | 118 GPa 17.1 Msi |
| Short Beam Shear | ASTM D 2344 | 93.7 MPa 13.6 ksi |

Test Condition RTD

Material Properties

- Highest Tg (200 Degree C+)
- Lower process temp (vs. PEEK, PEKK)
- Superior toughness
- Superior fatigue resistance
- Excellent fire, smoke, and toxicity properties
- Great wear resistance
- Excellent adhesion

Processing Advantages:

- Rapid processing possible (no cure)
- Solvent free
- Infinite shelf life
- Damage repair (reconsolidates)
- Reprocess able waste stream

Gordon Plastics data is produced by representative samples of the material evaluated. Since the materials can be processed under many different methods, conditions, and circumstances, their actual properties can vary. Gordon Plastics cannot assure how it's customers will process the material, therefore Gordon Plastics cannot guarantee the properties of the material