

# TECHNICAL DATA SHEET

## GP UD PEKK Carbon Tape



### Gordon Plastics UD PEKK Standard Modulus Carbon Tape

34% 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	2324 MPa 337 ksi
Tensile Modulus 0°	ASTM D 3039	145 GPa 21.0 Msi
Flexural Strength 0°	ASTM D 790	1620 MPa 235 ksi
Flexural Modulus 0°	ASTM D 790	119 GPa 17.2 Msi
Short Beam Shear	ASTM D 2344	104.8 MPa 15.2 ksi

Test Condition RTD

#### Material Properties

- Excellent chemical and solvent resistance
- Higher Tg (vs. PEEK)
- Excellent fire, smoke and toxicity properties
- Good wear resistance
- Flame retardant
- Low moisture absorption

#### Processing Advantages:

- Lower pressure temperature (vs. PEEK)
- 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 its customers will process the material, therefore Gordon Plastics cannot guarantee the properties of the material*