



PERFORMANCE MATERIALS CORPORATION
Continuous Fiber Reinforced Thermoplastic (CFRT®)

TL-2100 is offered in several grades to meet a broad range of biomechanical requirements.

TL-2100 Graphite Product Guide

All grades of TL-2100 consist of the same ingredients:

The specific type of carbon fiber used. The carbon fiber (graphite) provides strength, stiffness, and durability. It facilitates thinness and light weight.

The specific type of acrylic resin used to impregnate the carbon fiber, fill the center core, and protect the outer surface.

The unique thermoformable sandwich sheet material concept, for which PMC has earned a patent.

- TL-2100 grades differ only in terms of the volume of carbon fiber used and the thickness of the sheet material.
- TL-2100's custom-designed weave provides high strength carbon fiber in the longitudinal direction of an Orthotic.



For more information please call your preferred lab or:



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TL-2100

TL-2100 is produced and sold in dried pre-cut rectangular plates in moisture resistant bags which are ready for fabrication into orthotics. Five standard sizes cover the full range of Orthotic requirements.

| Size | Dimension | |
|------|------------------|---|
| 1 | 3.0 x 7.0 inches | Sizes 1 and 3 are not available in the Ultra Strength grade. |
| 3 | 3.5 x 7.5 inches | |
| 4 | 4.0 x 8.0 inches | |
| 5 | 4.0 x 8.5 inches | Additional sheet sizes are available on a factory special order basis only. Contact your materials distributor for further information. |
| 6 | 5.0 x 9.0 inches | |

Specifications:

| Property | Semi-Flex | Semi-Rigid | Rigid | Ultra |
|-------------------------------|--------------|--------------|----------|----------|
| Rigidity (#-in ²) | 50 | 120 | 220 | 240 |
| Thickness (inches) | 0.070 | 0.090 | 0.110 | 0.115 |
| Composition | 100% | 100% | 100% | 100% |
| | Graphite | Graphite | Graphite | Graphite |
| Polypro Replacement | 1/8" - 3/16" | 3/16" - 1/4" | 1/4" + | 1/4" + |

Grades of TL-2100 Thickness vs. Rigidity

| | Semi-Flex | Semi-Rigid | Rigid | Ultra |
|--------------------|-----------|------------|---------|---------|
| Thickness (inches) | 0.070 | 0.090 | 0.110 | 0.115 |
| Inner Core | 0.013 | 0.025 | 0.050 | 0.050 |
| Fabric Design | 3K x 6K | 3K x 6K | 3K x 6K | 6K x 3K |
| Flex Load | 250 | 350 | 450 | 570 |
| Rigidity | 50 | 120 | 220 | 240 |