TACONIC®

Composite Molding

PTFE Coated Fiberglass Tapes & Fabrics act as a cost-effective release surface for hand lay-up and open mold composites. During the hand lay-up process, PTFE coated fabric acts as a flexible release liner that conforms to the mold while its nonstick coating allows clean removal from the molded composite part. In open mold processing, the mold or tool is lined with PTFE coated tape which provides an advantage over fabric for complex shapes in that it is conformable and will stay firmly in place. Once the PTFE lined mold is filled with resin and composite material, curing occurs and the PTFE tape releases cleanly from the tooling. In most applications, composite parts should be vacuum bagged in/on the mold to prevent pre-release of the part from the mold.

PTFE tapes and fabrics replace other manually applied release agents that are labor intensive to use and must be reapplied before each lay-up. PTFE tapes and fabrics provide a more consistent release and may also last for several pullsfrom the mold, providing additional time and cost savings. Another advantage of using PTFE tape and fabric as a release surface is the elimination of harmful chemicals that are often used to clean other release agents off the parts after manufacturing.

Features:

- Optimal release
- Provides ultra smooth finished surface
- Reduces prep time, finish work & clean-up
- Eliminates need for waxes & chemical cleaners
- Temperature resistant to 500°F/260°C
- Abrasion resistant
- Flexible/conformable
- Can be gel coated
- May perform for multiple pulls

Applications:

- Mold release for boat hulls and decks, bulkheads, helicopter rotor blades, wind turbine blades and other composite parts
- Nonstick covering for fabrication work surfaces

Composite Molding Data

Product Number	Overall Thickness (in)	Adhesive Thickness (inches)	Adhesive Type	Adhesive Strength (ozs)	Operating Temp Min/Max °F	Application
6085-03	0.005	0.002	Silicone	40	-100/500	Mold release tape
6085-05	0.007	0.002	Silicone	45	-100/500	Mold release tape
6085-06	0.008	0.002	Silicone	50	-100/500	Mold release tape
6095-03	0.005	0.002	Silicone	40	-100/500	Mold release tape
6095-05	0.007	0.002	Silicone	50	-100/500	Mold release tape
6095-06	0.008	0.002	Silicone	50	-100/500	Mold release tape
6445-02	0.004	0.002	Silicone	25	-100/500	Mold release tape
7025	0.0025	N/A	N/A	N/A	-100/500	Bleeder cloth and peel-ply
7038	0.0028	N/A	N/A	N/A	-100/500	Release Fabric

The data herein are averages based on the authoritative testing of several lot numbers. This information is intended for comparison purposes only.

Industries:

- Aerospace
- Renewable Energy
- Automotive
- Marine
- Construction
- Sports & Recreational Equipment
- Military
- Ballistics Protection
- Civil Infrastructure Repair

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OVER 60 YEARS *of innovation*

Lester T. Russell, the acknowledged inventor of the process for applying PTFE to fiberglass fabric, founded Taconic in 1961.

The company produces advanced engineered composite materials for use in diverse markets. Taconic is dedicated to quality, innovation and environmental safety.

Our talented R & D, engineering and multi-lingual sales support network assures success in solving our customers' application challenges around the globe.

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