

Carbostamp® PA6 UD Tape

A/Product description :

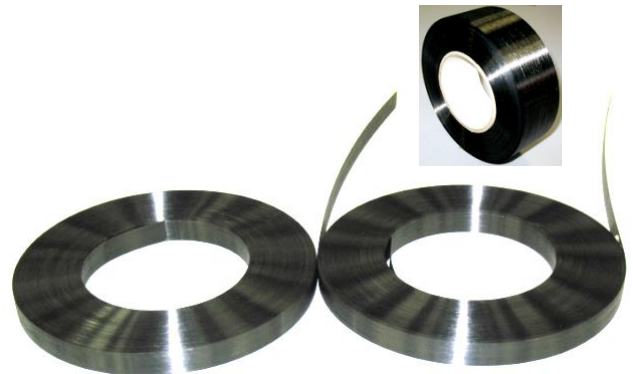
Carbostamp® UD tape is a range of fully impregnated carbon / thermoplastics Unidirectional tapes. Available in different widths, it offers an excellent production cycle time /mechanical performance ratio. It has been specifically developed for high productivity applications such as automotive, sport and leisure, aerospace and industry markets.

B/Features and benefits :

Carbostamp products features

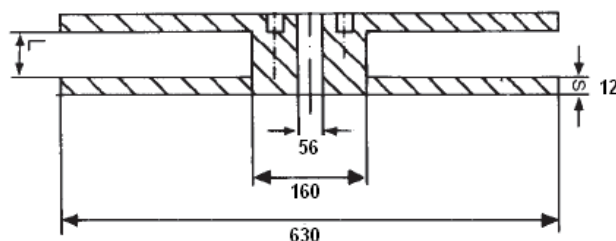
- Very short moulding cycle (from 15 sec to 2 min).
- Excellent impact and fatigue behaviour.
- Indefinite room temperature storage.
- Outstanding look and excellent surface finish.
- Undisputed Torayca® carbon fibre quality
- Perfect weldability
- Proven economical advantage vs thermo set.
- Flexibility in use (reformable or post formable).

Carbostamp®



C/Product presentation :

Carbostamp® UD Tape is available in rolls up to 800 lm long.
Reels format is as follows :



This information is provided for informational purposes only and without legal responsibility. Users are expected to perform adequate verification and testing to ensure that materials meet required specifications.

D/Product range :

PA6 tapes are available in 0.32 mm thickness.
We offer a range of widths from 150 mm up to 3.175 mm.
All our tape are manufactured based on Torayca® T700SC-12K carbon fibre.

E/ Mechanical performances :

All the performance values given in this data are based on experimental results obtained during testing under laboratory conditions. They are typical values; they do not constitute specification minima.
For any specific test or information fell free to contact our technical department.

CARBOSTAMP®UD Tape

Thickness	0.32
Fibre aerial weight	250 g/m ²
Fibre type	Torayca® T 700SC
Resin Contents (in volume)	50%
Porosity contents	2% max

Mechanical properties

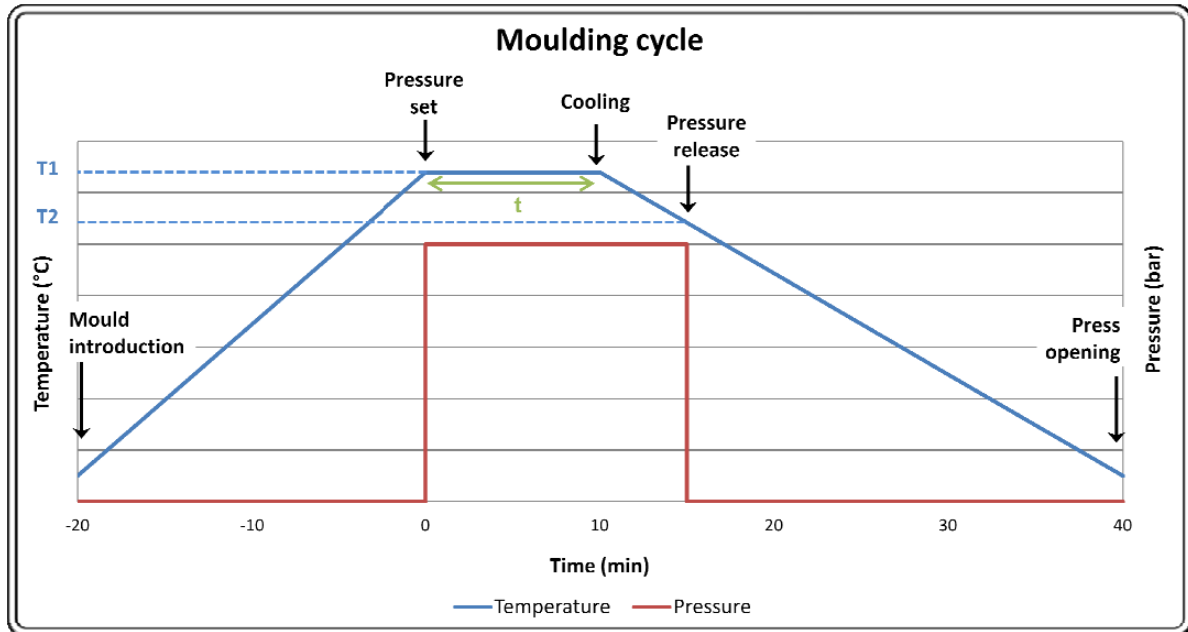
	PA 6
0° Tensile Modulus ISO 527-5	115 Gpa
0° Tensile Strength ISO 527-5	2200 Mpa
Poisson ratio	0,3
0° Compression Modulus EN 2850	110 Gpa
0° Compression Strength EN 2850	830Mpa
ILSS	63 Mpa
IPSS according to EN 6031	
Modulus	2,5 Gpa
Strength	123 Mpa

Thermal properties

Thermal dilatation ratio 0°	1,3 µm/m/°C
Density	1,45

F/ Recommended consolidation cycle :

Consolidation of Carbostamp® by press moulding or autoclave should be performed according to following parameters :



Matrix	Moulding temperature T1 (°C)	Pressure release temperature T2 (°C)	Moulding pressure (bar)	Moulding time t (min)
PA 6	287	160	4	10 min for 2 mm panel

G/ Storage / Handling precautions:

Storage time is unlimited. Carbostamp® should be stored before processing at room temperature. When processing, it is highly recommended to have carbon proof electrical cabinets to avoid short cuts. The usual precautions necessary when handling plastic resins should be observed. A Material Safety Data Sheet for Carbostamp® is available upon request.

H/ Contacts:

<p>Sales: Vincent MALLINGER Toray Carbon Fibers Europe Le Sequana II 87 Quai Panhard Levassor 75634 PARIS Cedex 13 TEL+33 1 56 61 12 88 FAX +33 1 53 79 99 01 MOBILE +33 6 74 79 93 68 vincent.mallinger@toray-cfe.com</p>	<p>Technical: Maurice GELI Toray Carbon Fibers Europe Route de Lagor, Bassin de Lacq, Pôle 4, 64150 Abidos, FRANCE TEL +33 5 59 60 71 46 FAX +33 5 59 60 99 50 MOBILE +33 6 33 18 33 27 maurice.geli@toray-cfe.com</p>
--	--