

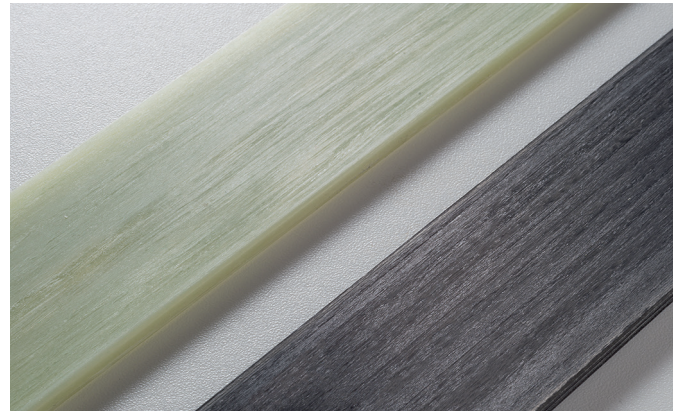
Lightweights for tough requirements

Elastocoat® C for Pultrusion

Elastocoat® C 6226 is a polyurethane (PU) resin used in pultrusion technology for high performance profiles. In contrast to other resins, these PU systems show significant advantages in

- pultrusion speed at low pull force
- very high interlaminar shear strength (ILSS)
- low emission and VOC values

BASF provides solutions for glass and carbon fiber profiles.



Pultruded Profiles; glass fiber on the left, carbon fiber on the right. Photo: BASF

Properties	Test Standard	Elastocoat® C 6226/105 for glass fiber	Elastocoat® C 6226/106 for carbon or glass fiber
Neat resin			
Viscosity system	23 °C	240 mPas	85 mPas
Elongation	ISO 527-2	6 %	8 %
Laminat values			
Fiber [54 Vol. %]		GF, Star Rov 907, Johns Manville	CF, Toho Tenax 48K, 3200 tex
Glass transition temperature	DMA, max tan _{delta}	115 °C	110 °C
ILSS	EN 2563	61 MPa	66 MPa
Bending modulus long.	ISO 14125	47 GPa	125 GPa
Bending modulus trans.	ISO 14125	13 GPa	7 GPa

The stated values for individual grades are typical test results and not limiting specification values.

Elastocoat® C 6226/107 – resin for high temperature applications

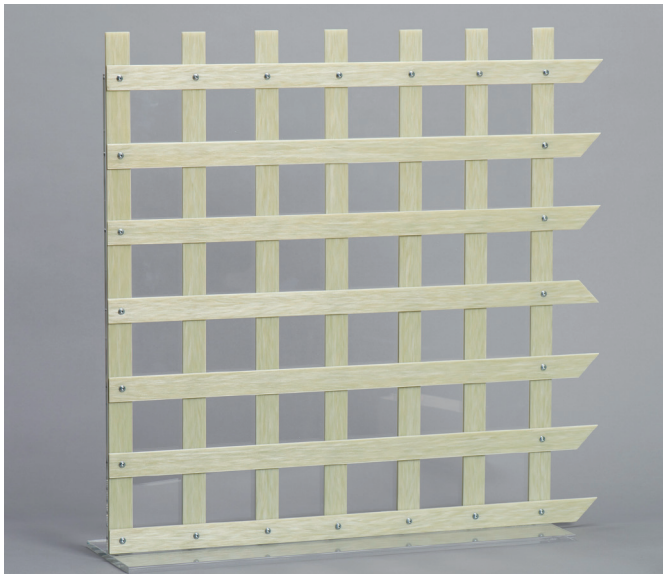
With the new generation of pultrusion resin BASF enables:

- Applications that require high temperature resistance e.g. E-coat process
- Applications that need a stable modulus in a wide range of use temperature

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Mechanical data	Temperature	Elastocoat® C 6226/107 High Tg
Bending modulus long. ISO 14125	23 °C	45 GPa
Bending modulus long. ISO 14125	80 °C	45 GPa
Bending modulus long. ISO 14125	160 °C	43 GPa
HDT A		> 200 °C
HDT B		> 200 °C



Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (November 2019)

If you have technical questions on the products,
please contact the PU-Infopoint:



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www.polyurethanes.basf.de