

# HOSTAFORM® XGC25 XAP® ECO-B

## HOSTAFORM®

Hostaform® XGC25 XAP® is an acetal copolymer reinforced with approximately 25% glass fibers. Compared to the Hostaform® C 9021 GV 1/30, Hostaform® XGC25 XAP® has a higher strength and lower emissions.

ECO-B: Hostaform ECO-B is a POM-Copolymer with the same properties and performance as standard grades but produced with sustainability in mind. Using a mass-balance approach, biogenic feedstocks are used to offset the use of fossil-based raw materials and decrease greenhouse gas emissions. The process is audited and certified according to the ISCC Plus mass balance approach.

ISO 29988-POM-K,(GF25),EM,0-3

### Product information

Resin Identification	POM-GF25	ISO 1043
Part Marking Code	>POM-GF25<	ISO 11469

### Rheological properties

Melt volume-flow rate	2 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	0.6 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.0 %	ISO 294-4, 2577

### Typical mechanical properties

Tensile modulus	9000 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	155 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5 %	ISO 527-1/-2
Flexural modulus	8300 MPa	ISO 178
Compressive stress at 1% strain	85 MPa	ISO 604
Charpy impact strength, 23°C	70 kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	13 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	11 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.34 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	160 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	30 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	60 E-6/K	ISO 11359-1/-2

### Physical/Other properties

Water absorption, 2mm	0.9 %	Sim. to ISO 62
Density	1580 kg/m <sup>3</sup>	ISO 1183

# HOSTAFORM® XGC25 XAP® ECO-B HOSTAFORM®

## Injection

Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	200 °C
Min. melt temperature	190 °C
Max. melt temperature	210 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	80 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	2 MPa

## Characteristics

Processing	Injection Moulding
Special characteristics	Low emissions
Sustainability	Bio-Content

## Additional information

Processing Notes

### Pre-Drying

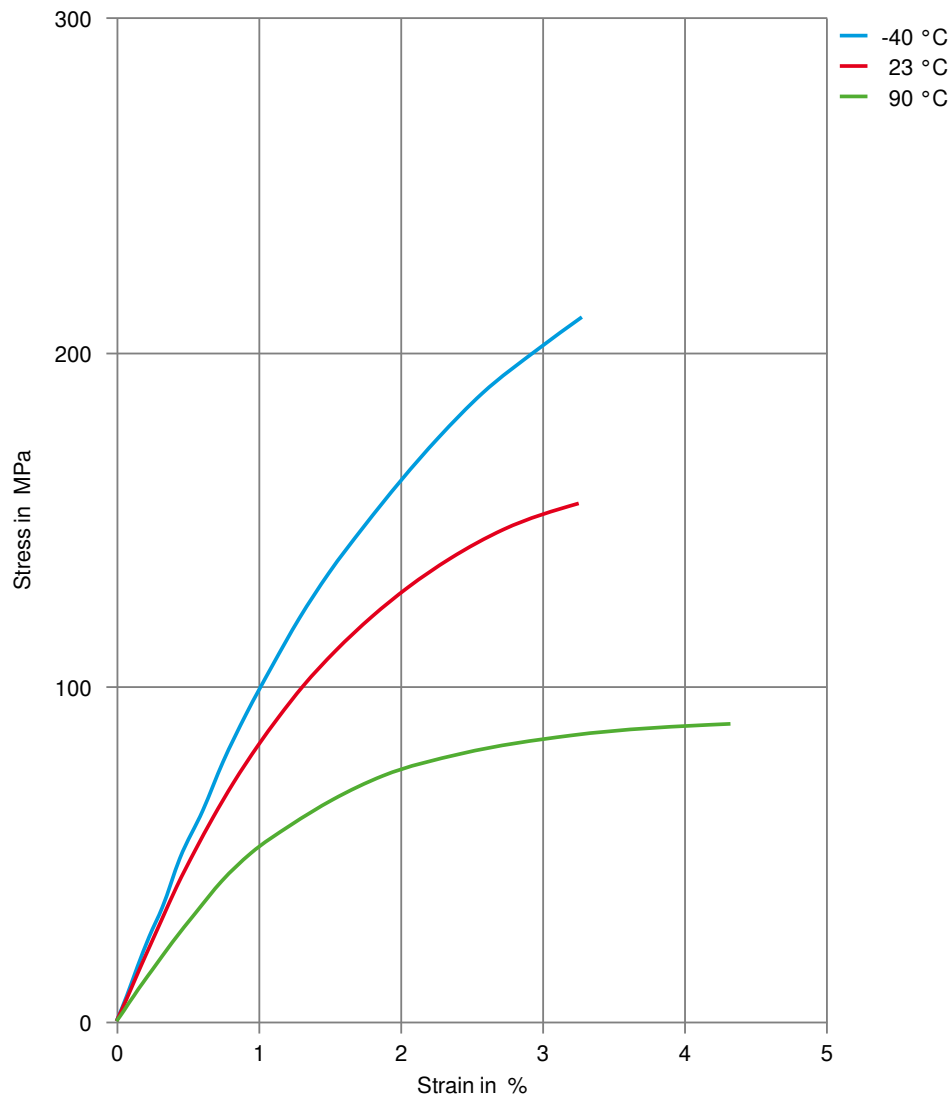
Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.

### Storage

The product can then be stored in standard conditions until processed.

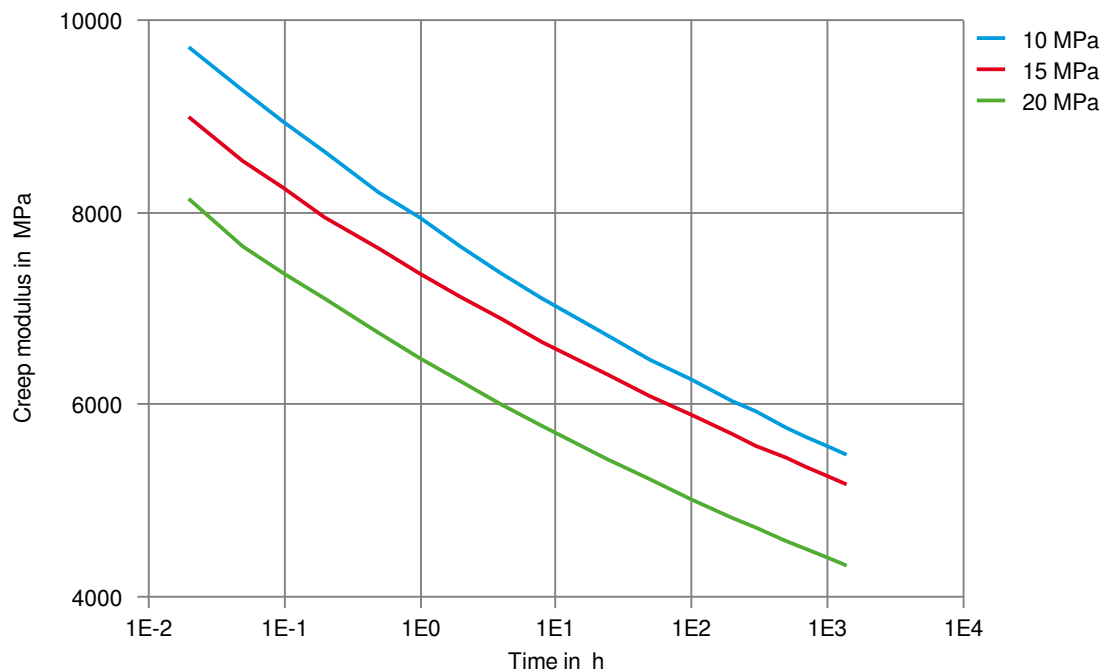
# HOSTAFORM® XGC25 XAP® ECO-B HOSTAFORM®

## Stress-strain



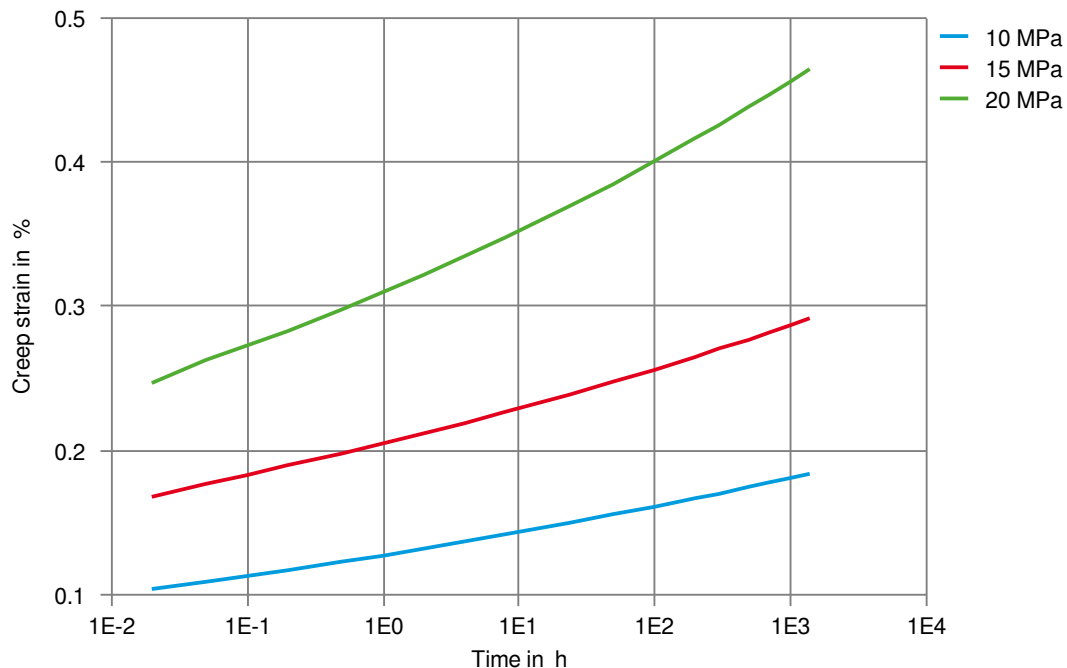
# HOSTAFORM® XGC25 XAP® ECO-B HOSTAFORM®

## Creep modulus-time 90°C



# HOSTAFORM® XGC25 XAP® ECO-B HOSTAFORM®

## Creep strain-time 90 °C



Printed: 2025-05-30

Page: 5 of 5

Revised: 2025-01-24 Source: Celanese Materials Database

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

© 2025 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC.