



HOSTAFORM®

POM copolymer

Injection molding type, reinforced with ca 26 % glass fibers; high resistance to thermal and oxidative degradation; reduced thermal expansion and shrinkage.

Product is compliant with European Food Regulation EU 10/2011 and FDA Food Regulation FDA21CFR 177.2470 Ranges of applications: For molded parts with very high strength and rigidity as well as higher hardness.

Product information

| Resin Identification | POM-GF26 | ISO 1043 |
|----------------------|------------|-----------|
| Part Marking Code | >POM-GF26< | ISO 11469 |

Rheological properties

| Melt volume-flow rate | 4 cm ³ /10mi | n 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 | 9200 | MPa | ISO 527-1/-2 |
|---------------------------------------|---------------------|-------|--------------|
| Tensile stress at break, 5mm/min | 135 | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2.5 | % | ISO 527-1/-2 |
| Flexural modulus | 7800 | MPa | ISO 178 |
| Flexural strength | 160 | MPa | ISO 178 |
| Tensile creep modulus, 1h | 7700 | MPa | ISO 899-1 |
| Tensile creep modulus, 1000h | 5400 | MPa | ISO 899-1 |
| Charpy impact strength, 23°C | 30 | kJ/m² | ISO 179/1eU |
| Charpy impact strength, -30°C | 35 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 8 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 8 | kJ/m² | ISO 179/1eA |
| Ball indentation hardness, H 358/30 | 200 | MPa | ISO 2039-1 |
| Poisson's ratio | 0.34 ^[C] | | |

Thermal properties

[C]: Calculated

| 166 | °C | ISO 11357-1/-3 |
|---------|--|--|
| 160 | °C | ISO 75-1/-2 |
| 125 | °C | ISO 75-1/-2 |
| 40 | E-6/K | ISO 11359-1/-2 |
| | | |
| 80 | E-6/K | ISO 11359-1/-2 |
| | | |
| 0.215 | W/(m K) | ISO 22007-2 |
| 6.51E-8 | m²/s | ISO 22007-4 |
| 1810 | J/(kg K) | ISO 22007-4 |
| | 160 125 40 80 0.215 6.51E-8 | 166 °C 160 °C 125 °C 40 E-6/K 80 E-6/K 0.215 W/(m K) 6.51E-8 m²/s 1810 J/(kg K) |

Printed: 2025-05-30 Page: 1 of 6

Revised: 2024-10-31 Source: Celanese Materials Database





HOSTAFORM®

Flammability

| Burning Behav. at 1.5mm nom. thickn. | HB class | IEC 60695-11-10 |
|--------------------------------------|----------|-----------------|
| Thickness tested | 1.6 mm | IEC 60695-11-10 |
| Burning Behav. at thickness h | HB class | IEC 60695-11-10 |
| Thickness tested | 3.18 mm | IEC 60695-11-10 |

Electrical properties

| Relative permittivity, 100Hz | 4.3 | | IEC 62631-2-1 |
|------------------------------|------|-------|---------------|
| Relative permittivity, 1MHz | 4.3 | | IEC 62631-2-1 |
| Dissipation factor, 100Hz | 30 | E-4 | IEC 62631-2-1 |
| Dissipation factor, 1MHz | 60 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 1E12 | Ohm.m | IEC 62631-3-1 |
| Surface resistivity | 1E14 | Ohm | IEC 62631-3-2 |
| Electric strength | 40 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 | | IEC 60112 |

Physical/Other properties

| Humidity absorption, 2mm | 0.17 % | Sim. to ISO 62 |
|--------------------------|------------|----------------|
| Water absorption, 2mm | 0.9 % | Sim. to ISO 62 |
| Density | 1600 kg/m³ | ISO 1183 |
| Density of melt | 1350 kg/m³ | |

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 |
| Ejection temperature | 140 °C |

Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Release agent

Printed: 2025-05-30 Page: 2 of 6

Revised: 2024-10-31 Source: Celanese Materials Database





HOSTAFORM®

Additional information

Processing Notes

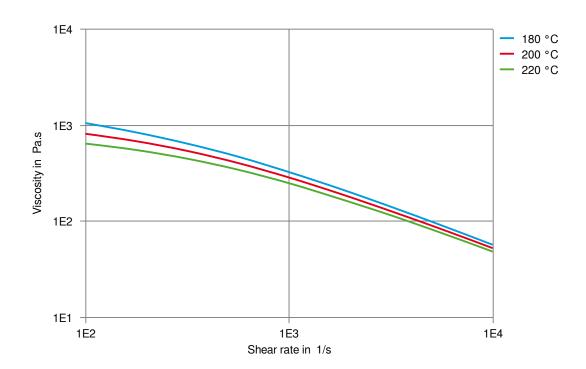
Pre-Drying

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.

Viscosity-shear rate



Printed: 2025-05-30 Page: 3 of 6

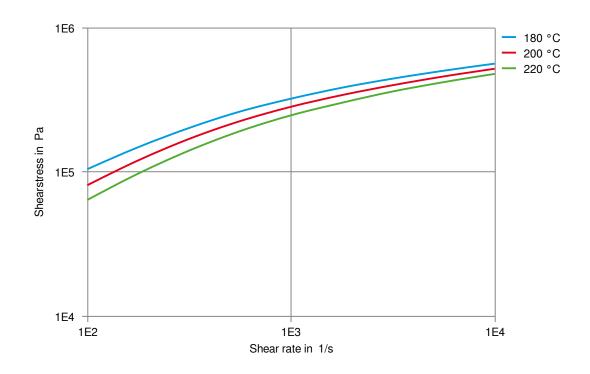
Revised: 2024-10-31 Source: Celanese Materials Database





HOSTAFORM® C 9021 GV1/30 3134 HOSTAFORM®

Shearstress-shear rate



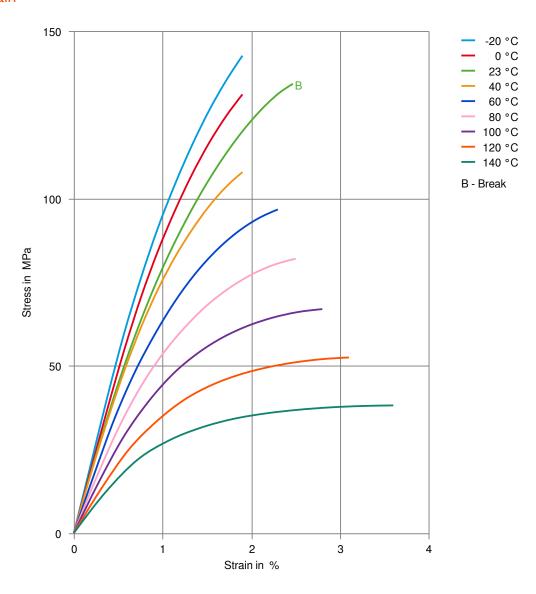
Printed: 2025-05-30 Page: 4 of 6





HOSTAFORM® C 9021 GV1/30 3134 HOSTAFORM®

Stress-strain

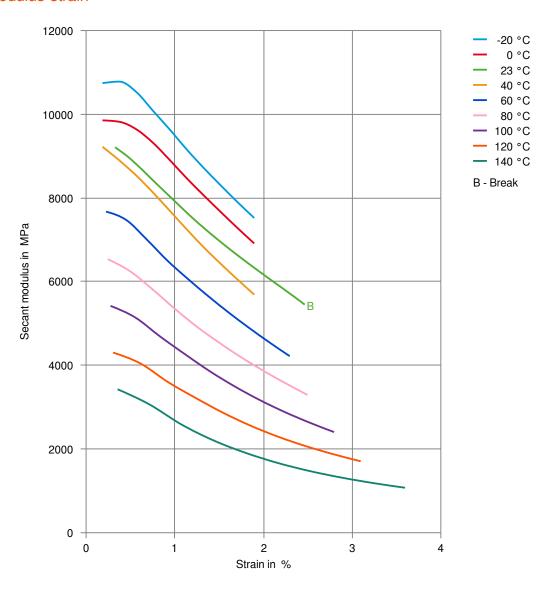


Printed: 2025-05-30 Page: 5 of 6





Secant modulus-strain



Printed: 2025-05-30 Page: 6 of 6

Revised: 2024-10-31 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 e

© 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.