

High strength glass coupled

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

Rheological properties

Melt volume-flow rate Temperature Load	190	cm³/10min ° C kg	ISO 1133
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
Stress at break, 5mm/min	155	MPa	ISO 527-1/-2
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
Shear Modulus	1740	MPa	ISO 6721
Charpy impact strength, 23°C		kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	11	kJ/m²	ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	160	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2
Other properties			
Water absorption, 2mm	0.9	%	Sim. to ISO 62
Density		kg/m ³	ISO 1183

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Injection

Drying Temperature 100 - 120 °C Drying Time, Dehumidified Dryer 3-4 h **Processing Moisture Content** 0.15 % Melt Temperature Optimum 210 °C Internal Screw tangential speed 0.2 - 0.21 m/s Max. mould temperature 80 - 120 °C Back pressure 2 MPa Injection speed slow

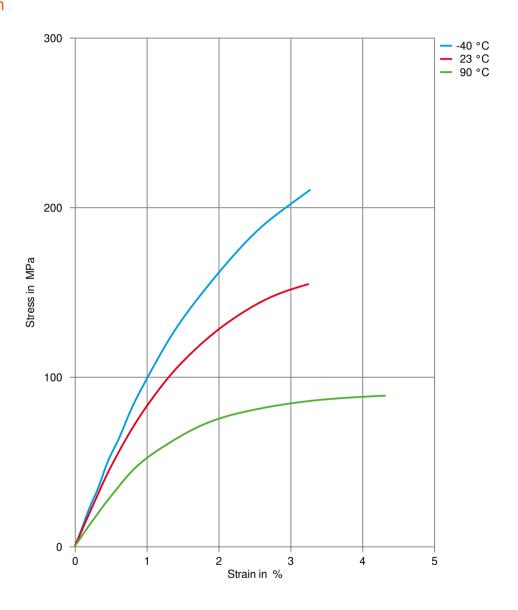
Characteristics

Additives Biobased

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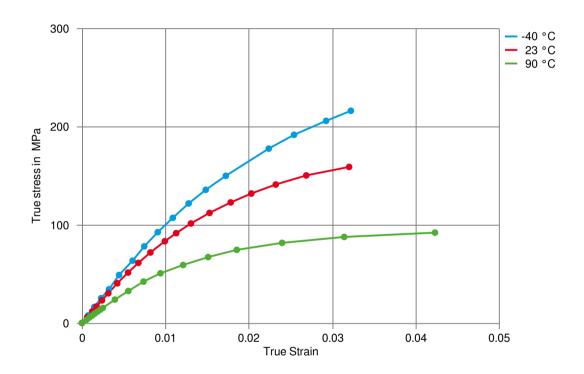
Stress-strain



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True stress-strain



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Processing Texts

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.

Longer pre-drying times/storage The product can then be stored in standard conditions until processed.

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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 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, pr

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