

HOSTAFORM® C 9021 GV1/30

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Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 02-003, GF26 POM copolymer Injection molding type, reinforced with ca 26 % glass fibers; high resistance to thermal and oxidative degradation; reduced thermal expansion and shrinkage. UL-registration for all colours and a thickness more than 1.57 mm as UL 94 HB, temperature index UL 746 B electrical 105 °C, mechanical 95 °C (tensile impact) and 100 °C (tensile). Burning rate ISO 3795 and FMVSS 302 < 100 mm/min and a thickness more than 1 mm thickness. Ranges of applications: For molded parts with very high strength and rigidity as well as higher hardness. FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (USA)

Product information

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

Rheological properties

| | | |
|------------------------------|--------------------------|-----------------|
| Melt volume-flow rate | 4 cm ³ /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 | 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/m ² | ISO 179/1eU |
| Charpy impact strength, -30 °C | 35 kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23 °C | 8 kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30 °C | 8 kJ/m ² | ISO 179/1eA |
| Ball indentation hardness, H 358/30 | 200 MPa | ISO 2039-1 |
| Poisson's ratio | 0.392 | |

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 |
| Temperature of deflection under load, 8 MPa | 125 °C | ISO 75-1/-2 |
| Coefficient of linear thermal expansion (CLTE), parallel | 40 E-6/K | ISO 11359-1/-2 |
| Coefficient of linear thermal expansion (CLTE), normal | 80 E-6/K | ISO 11359-1/-2 |
| Thermal conductivity of melt | 0.215 W/(m K) | ISO 22007-2 |
| Effective thermal diffusivity, flow | 6.51E-8 m ² /s | ISO 22007-4 |
| Specific heat capacity of melt | 1810 J/(kg K) | ISO 22007-4 |

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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 |
| UL recognition | yes | UL 94 |

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/m ³ | ISO 1183 |

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 | 133 °C |

Characteristics

| | |
|---------------|--------------------|
| Processing | Injection Moulding |
| Delivery form | Pellets |
| Additives | Release agent |

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Additional information

Injection molding

Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Processing

Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Postprocessing

Conditioning e.g. moisturizing is not necessary.

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.

Automotive

| OEM | STANDARD | ADDITIONAL INFORMATION |
|----------------|--------------------|------------------------|
| BMW | GS93016 | |
| Bosch | N28 BN22-X010 | Natural |
| Bosch | N28 BN22-X010 | Black |
| Continental | TST N 055 54.10 | |
| General Motors | GMW17968P-POM-GF25 | Natural |
| Mercedes-Benz | DBL5403 | (5401.00) |
| Mercedes-Benz | DBL5406 | (5406.00) |
| Mercedes-Benz | DBL5410 | (5410.00) |
| Mercedes-Benz | DBL5420 | (5420.00) |

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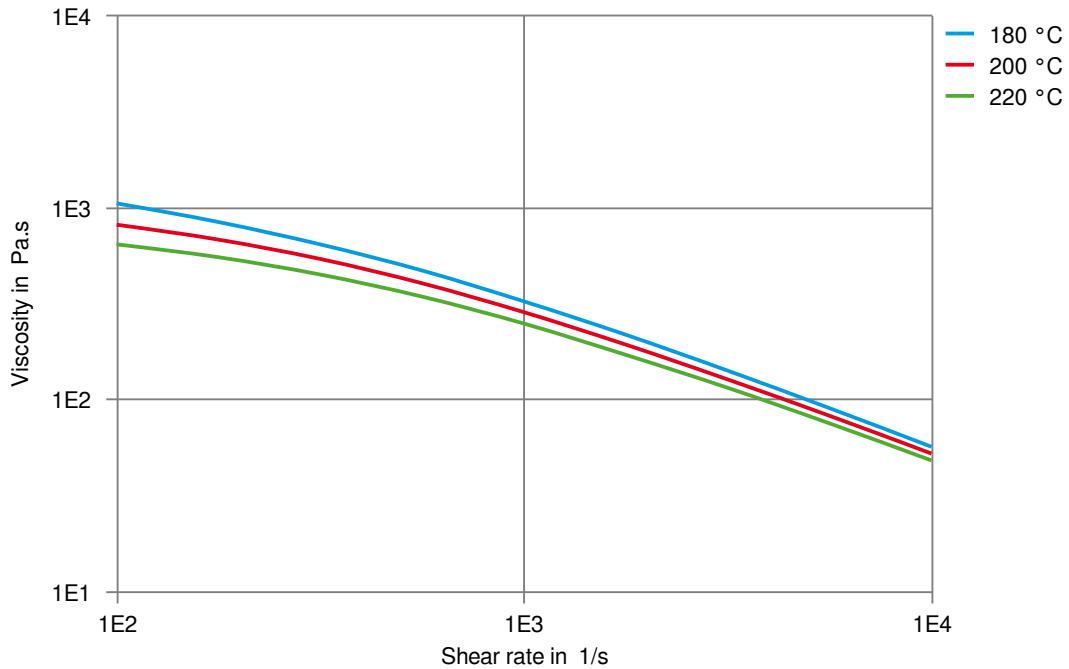
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Stellantis - Chrysler
VW Group

MS.50095 / CPN-4291
No Spec, Special Part Approval, See Your CE
Account Manager.

Natural

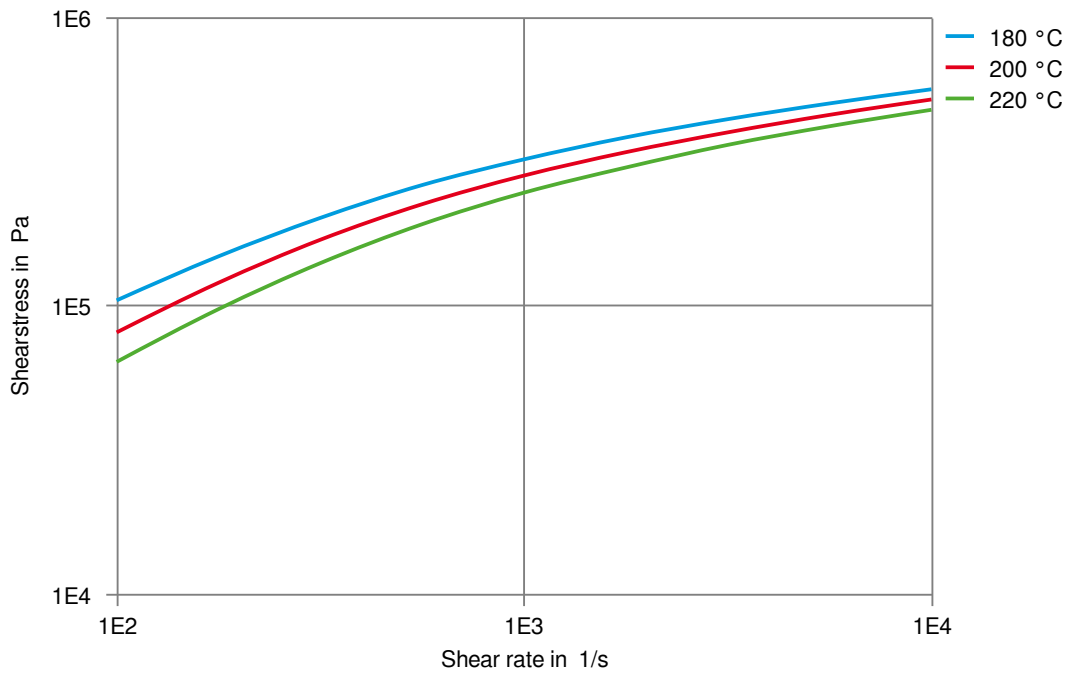
Viscosity-shear rate



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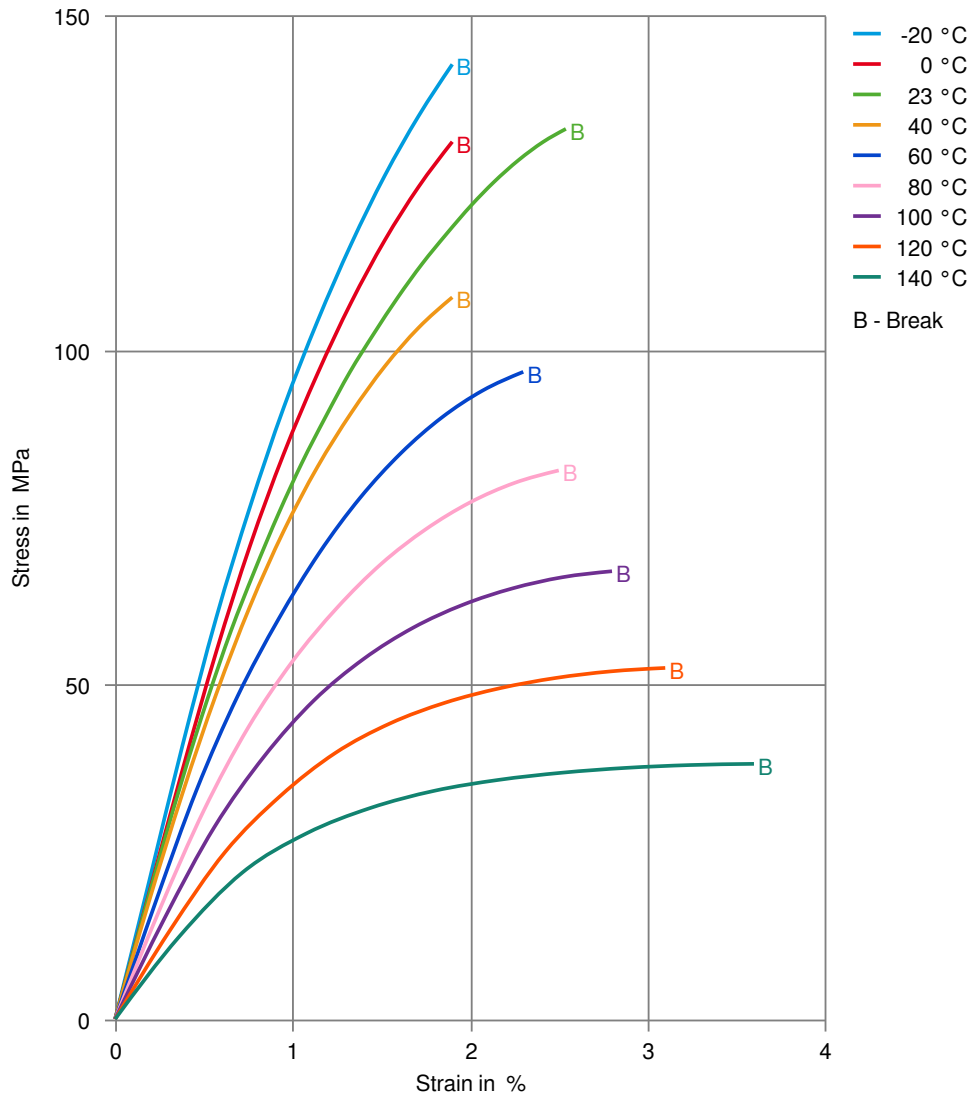
Shearstress-shear rate



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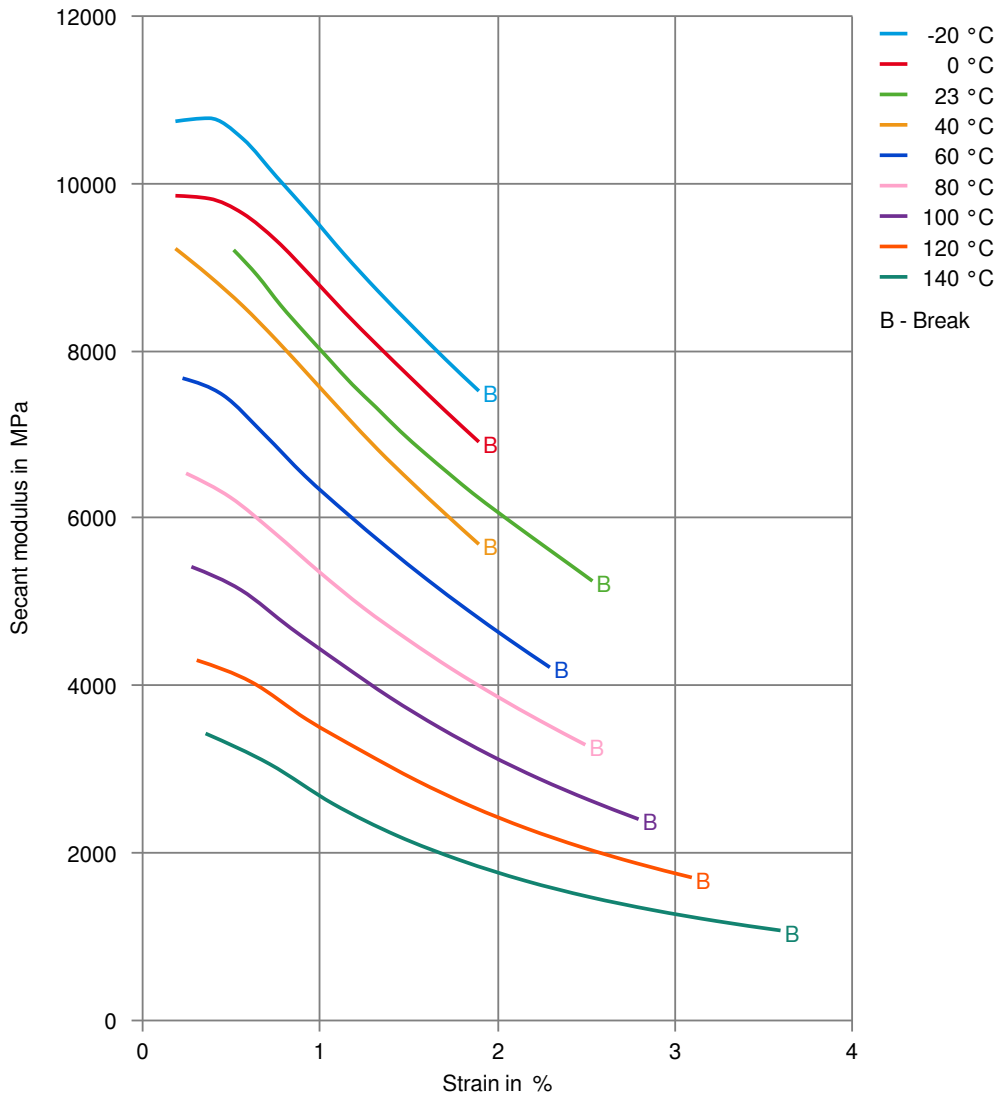
Stress-strain



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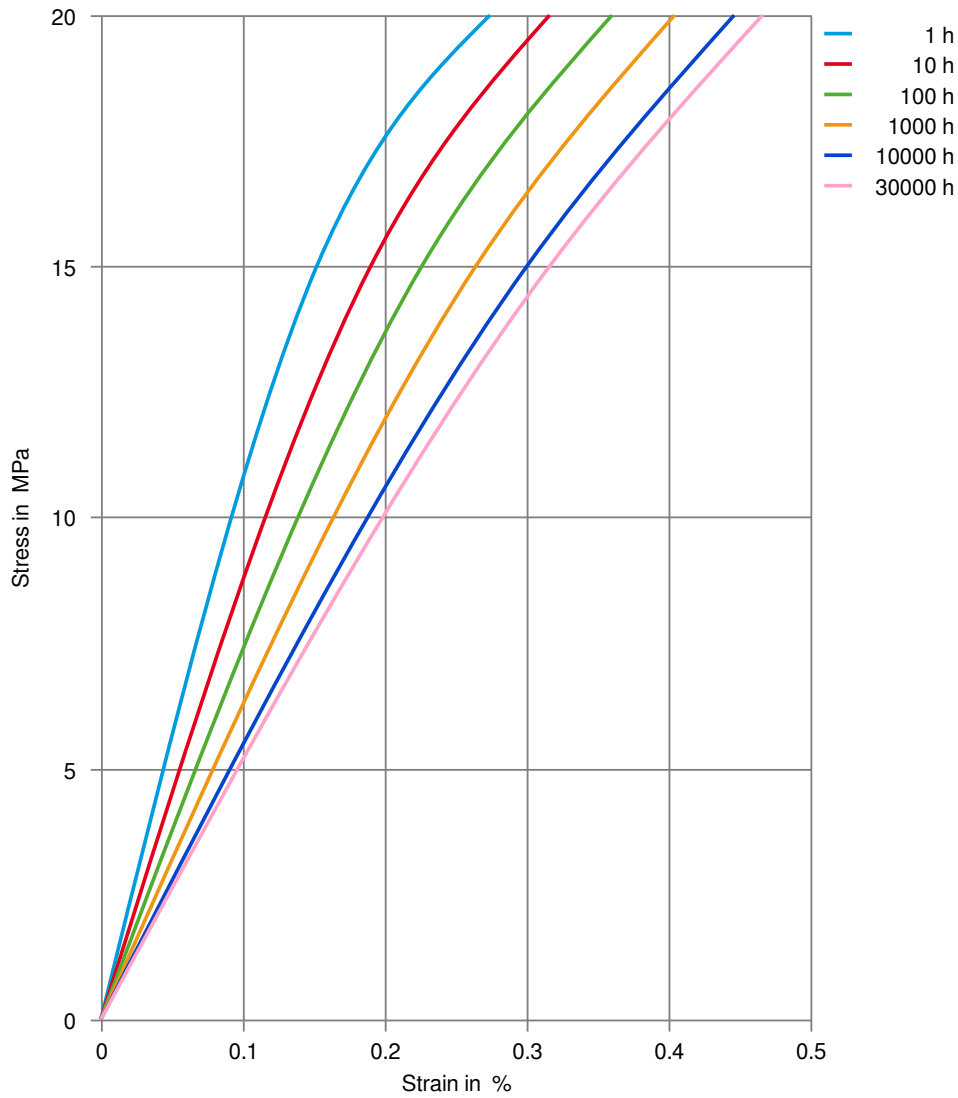
Secant modulus-strain



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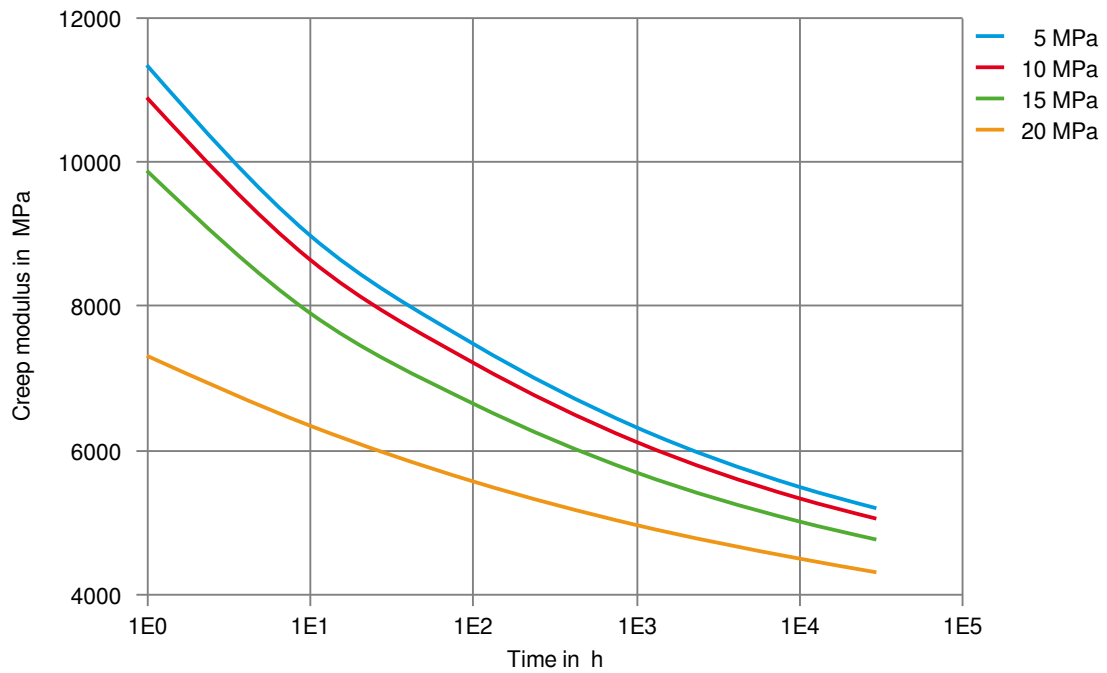
Stress-strain (isochronous) 80°C



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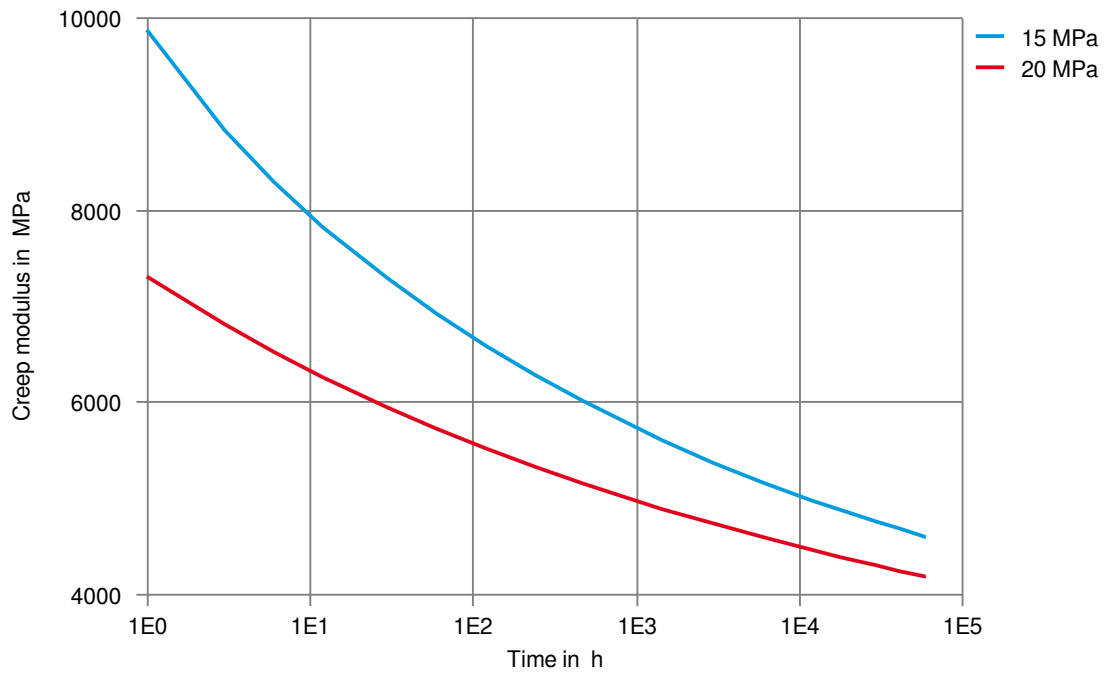
Creep modulus-time 80°C



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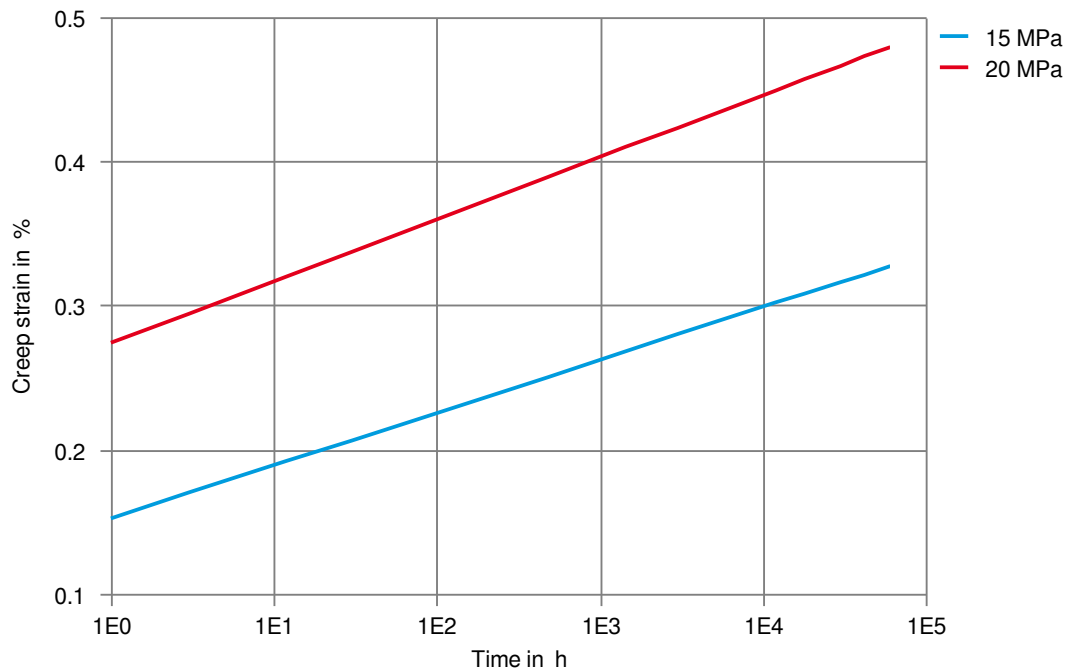
Creep modulus-time 85°C



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Creep strain-time 85 °C



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