



Polyacetal copolymer, reduced emission Easy flowing Injection molding type like C 13021 XAP®, but with higher strength, rigidity and hardness over the entire permissible temperature range for HOSTAFORM®; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Emissions according to VDA 275 < 10 ppm (natural and colored grades). Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: For molded parts with higher requirements to strength, rigidity und hardness, ranges of applications with fuel contact.

Product information

| Resin Identification PON Part Marking Code >POM- | |
|--|--|
| Part Marking Code >POM- | ISO 11469 |
| | |
| Rheological properties | |
| Melt volume-flow rate | 2 cm ³ /10min ISO 1133 |
| |) °C |
| · | S kg |
| Moulding shrinkage, parallel 2.0 | ISO 294-4, 2577 |
| Moulding shrinkage, normal 1.8 | 3 % ISO 294-4, 2577 |
| Typical mechanical properties | |
| Tensile modulus 3050 | MPa ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min 68 | 3 MPa ISO 527-1/-2 |
| | 3 % ISO 527-1/-2 |
| | 3 % ISO 527-1/-2 |
| | MPa ISO 178 |
| , | MPa ISO 899-1 |
| 1 , |) MPa ISO 899-1 |
| 1, 1 |) kJ/m ² ISO 179/1eU |
| 1, 1 |) kJ/m ² ISO 179/1eU 7 kJ/m ² ISO 179/1eA |
| 1,7 | 7 kJ/m ² ISO 179/1eA S kJ/m ² ISO 179/1eA |
| 1, | 6 MPa ISO 2039-1 |
| Poisson's ratio 0.37 ^[C] | |
| [C]: Calculated | |
| [O]. Calculated | |
| Thermal properties | |
| 0 1 / |) °C ISO 11357-1/-3 |
| , | 7 °C ISO 75-1/-2 |
| · · | E-6/K ISO 11359-1/-2 |
| (CLTE), parallel | |
| Thermal conductivity of melt 0.155 | 5 W/(m K) ISO 22007-2 |
| Electrical properties | |
| Relative permittivity, 100Hz | IEC 62631-2-1 |
| Relative permittivity, 1MHz | |
| , | E-4 IEC 62631-2-1 |
| , | E-4 IEC 62631-2-1 |
| Volume resistivity 1E12 | 2 Ohm.m IEC 62631-3-1 |

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| Surface resistivity | 1E14 Ohm | IEC 62631-3-2 |
|----------------------------|----------|---------------|
| Electric strength | 35 kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 | IEC 60112 |

Physical/Other properties

| Humidity absorption, 2mm | 0.2 % | Sim. to ISO 62 |
|--------------------------|------------------------|----------------|
| Water absorption, 2mm | 0.65 % | Sim. to ISO 62 |
| Density | 1410 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 | 4 | MPa |

Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Release agent Special characteristics Low emissions

Additional information

Injection molding Preprocessing

To achive low emission values pre drying using a recirculating air dryer (100 to $120 \, ^{\circ}\text{C}$ / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,1 %

Processing

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

Postprocessing

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Conditioning e.g. moisturizing is not necessary.

Processing Notes

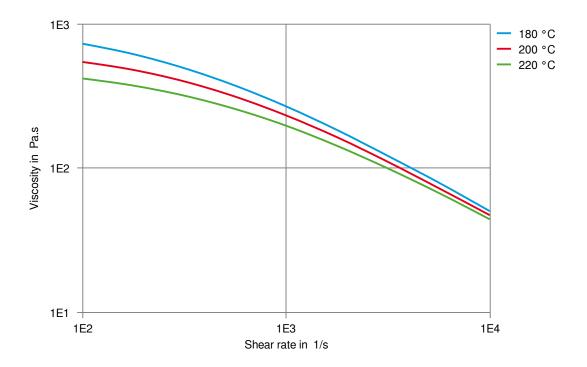
Pre-Drying

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.

Viscosity-shear rate

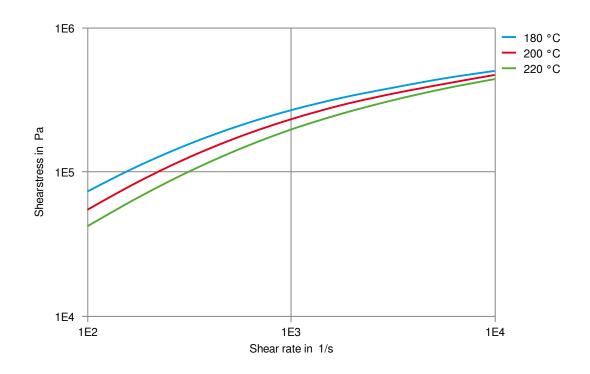


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Shearstress-shear rate

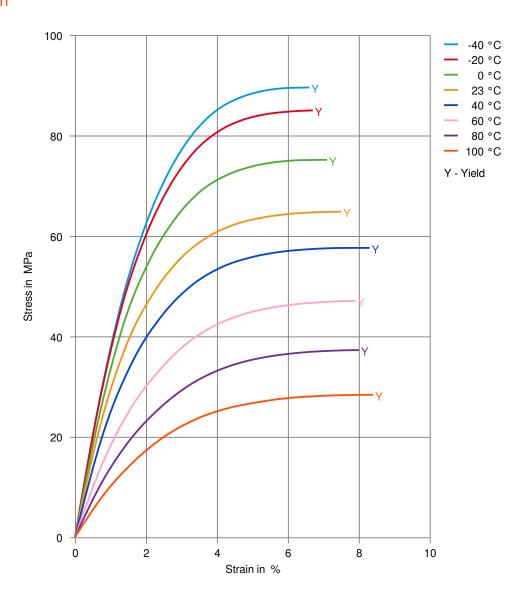


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Stress-strain

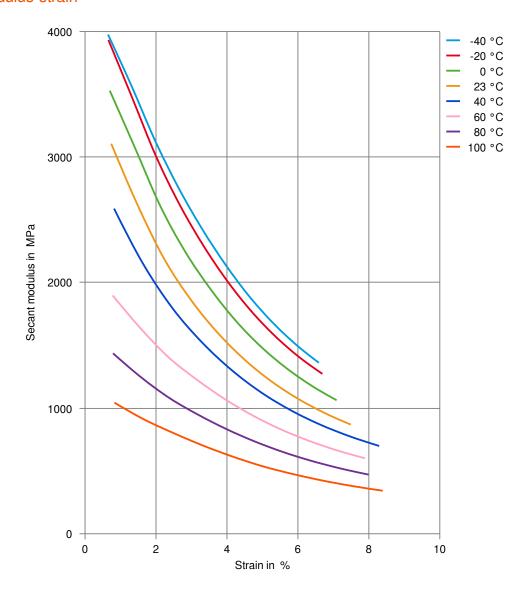


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Secant modulus-strain

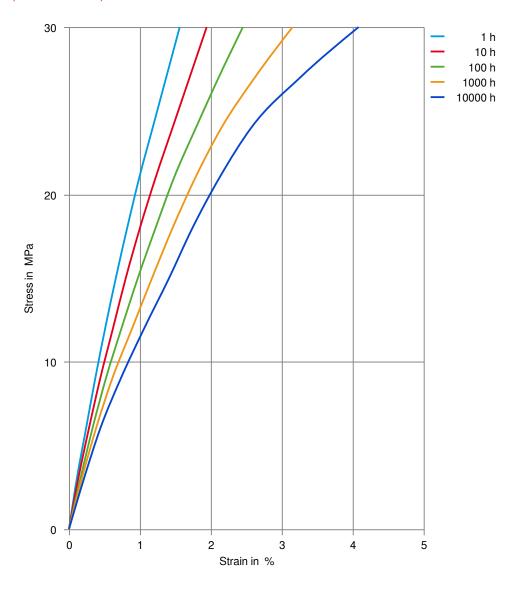


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Stress-strain (isochronous) 23°C



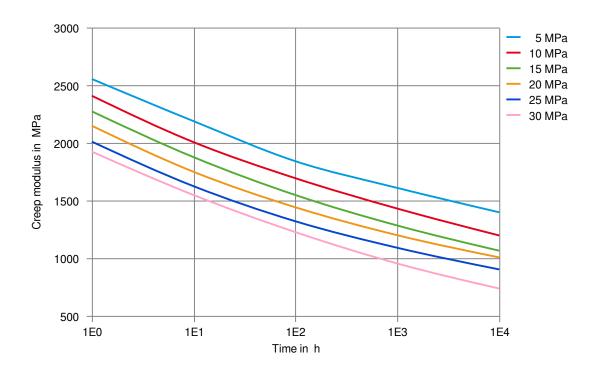
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HOSTAFORM® C 13031 XAP®

Creep modulus-time 23°C



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