

Injection molding type like C 9021, with PTFE modified

Hostaform® C 9021 TF5 is a standard flow low level polytetraflouroethylene filled (PTFE) product designed for use in wear applications against plastics, metal, glass or ceramic mating surfaces where silicone lubricants can not be tolerated.

Rheological properties

| Load 2. ⁻ Moulding shrinkage, parallel 2 | 8 cm³/10min ISO 1133 0 °C 6 kg 1 % ISO 294-4, 2577 8 % ISO 294-4, 2577 |
|---|---|
| Typical mechanical properties | |
| Yield stress, 50mm/min8Yield strain, 50mm/min96Shear Modulus96Charpy impact strength, 23°C12Charpy impact strength, -30°C11 | 0 MPa ISO 527-1/-2 8 MPa ISO 527-1/-2 9 % ISO 527-1/-2 2 MPa ISO 6721 5 kJ/m² ISO 179/1eU 0 kJ/m² ISO 179/1eU 2 kJ/m² ISO 179/1eU |
| Thermal properties | |
| 5 1 7 | 6 °C ISO 11357-1/-3 2 °C ISO 75-1/-2 |
| Other properties | |
| Water absorption, 2mm 0.6 | 2 % Sim. to ISO 62 5 % Sim. to ISO 62 0 kg/m³ ISO 1183 |
| Injection | |
| | 4 h 0 °C Internal 0 °C 2 MPa |

Characteristics

Additives

Release agent

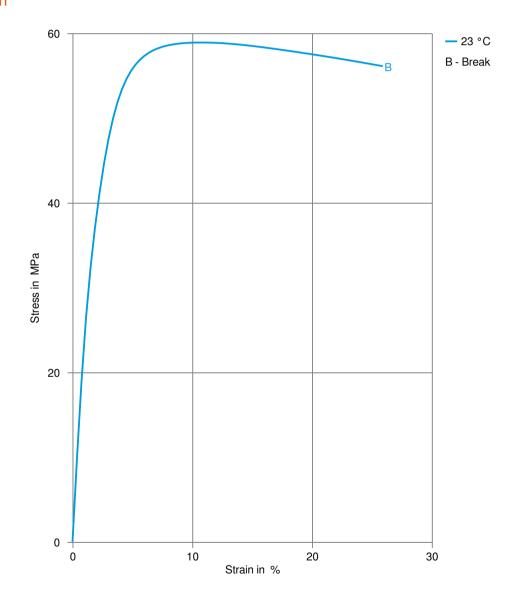


Additional information

Injection molding

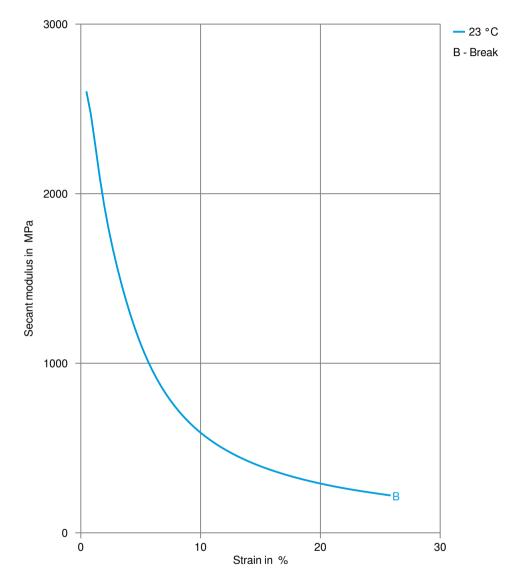
Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Stress-strain



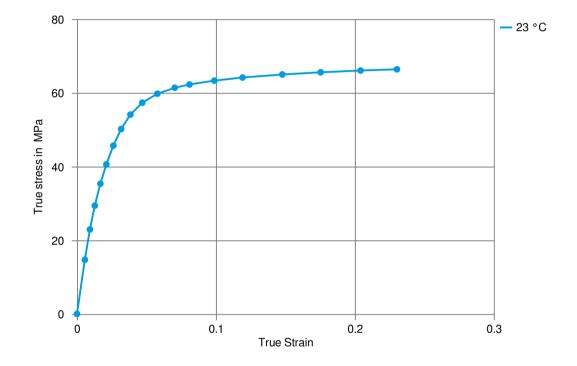


Secant modulus-strain





True stress-strain





| 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. |
| Injection molding | Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit. |
| 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 % |
| Injection molding Postprocessing | Conditioning e.g. moisturizing is not necessary. |

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