

HOSTAFORM® C 27021 TF - POM

Description

Hostaform® C 27021 TF is an easy flowing injection molding type, modified with PTFE; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation; for sliding combinations with very low coefficient of friction.

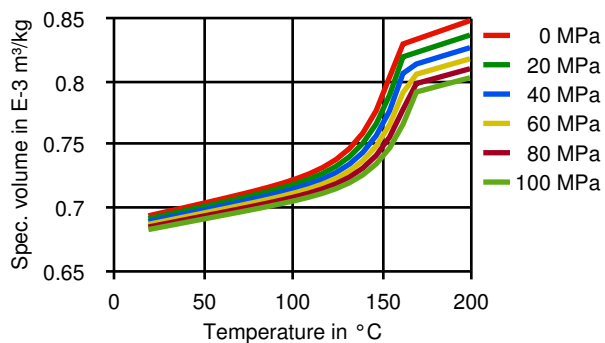
Physical properties	Value	Unit	Test Standard
Density	1510	kg/m ³	ISO 1183
Melt volume rate, MVR	17	cm ³ /10min	ISO 1133
MVR temperature	190	°C	ISO 1133
MVR load	2.16	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	2350	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	48	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	8	%	ISO 527-2/1A
Tensile nominal strain at break, 50mm/min	15	%	ISO 527-2/1A
Flexural modulus, 23°C	1950	MPa	ISO 178
Charpy impact strength, 23°C	50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	3.5	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3

Diagrams

Moldflow Specific volume-temperature (pvT)



Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-
Temperature	Value	Unit	Test Standard
Melt temperature	≤200	°C	-

Other text information

Injection molding

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

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Melt temperature 190-210 °C
 Mould temperature 80-120 °C

Characteristics

Product Categories

Tribological

Delivery Form

Pellets

Processing

Injection molding

Additives

Lubricants, Release agent

General Disclaimer

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. Colorants or other additives may cause significant variations in data values. Properties of molded 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. 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, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products. The products mentioned herein are not intended for use in medical or dental implants.

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