

## HOSTAFORM® C 9021 MD | POM | Stainless Steel Reinforced

### Description

Hostaform® C 9021 MD is a special modified Polyacetal copolymer based on Hostaform® C 9021 for parts, which should be identified by metal detectors.

Preliminary Datasheet

Physical properties	Value	Unit	Test Standard
Density	<b>1480</b>	kg/m <sup>3</sup>	ISO 1183
Melt volume rate (MVR)	<b>8.5</b>	cm <sup>3</sup> /10min	ISO 1133
MVR test temperature	<b>190</b>	°C	ISO 1133
MVR test load	<b>2.16</b>	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	<b>2800</b>	MPa	ISO 527-2/1A
Tensile stress at yield (50mm/min)	<b>58</b>	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	<b>9.5</b>	%	ISO 527-2/1A
Flexural modulus (23°C)	<b>2700</b>	MPa	ISO 178
Charpy impact strength @ 23°C	<b>95.0</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength @ 23°C	<b>4.5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength @ -30°C	<b>4.4</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	<b>166</b>	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	<b>97</b>	°C	ISO 75-1/-2

Electrical properties	Value	Unit	Test Standard
Volume resistivity	<b>1E12</b>	Ohm*m	IEC 60093
Surface resistivity	<b>1E13</b>	Ohm	IEC 60093

Test specimen production	Value	Unit	Test Standard
Processing conditions acc. ISO	<b>9988-2</b>	-	Internal

### Injection Molding

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

Melt temperature    190-230 °C  
Mould temperature    80-120 °C

### Contact Information

#### Americas

Ticona North American Headquarters  
Product Information Service

#### Europe

Ticona GmbH  
Information Service

## HOSTAFORM® C 9021 MD | POM | Stainless Steel Reinforced

8040 Dixie Highway  
Florence, KY 41042  
USA  
Tel.: +1-800-833-4882  
Tel.: +1-859-372-3244  
email: [prodinfo@ticona.com](mailto:prodinfo@ticona.com)  
Ticona on the web: [www.ticona.com](http://www.ticona.com)

Tel.: +49 (0) 180-5842662 (Germany)  
+49 (0) 69-30516299 (Europe)  
Fax: +49 (0) 180-2021202 (Germany & Europe)  
email: [infoservice@ticona.de](mailto:infoservice@ticona.de)  
Internet: [www.ticona.com](http://www.ticona.com)

Customer Service  
Tel.: +1-800-526-4960  
Tel.: +1-859-372-3214  
Fax: +1-859-372-3125

### 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 (+49 (0) 69 30516299 for Europe and +1 859-372-3244 for the Americas) 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.

© Copyright 2007, Ticona, all rights reserved. (Pub. 26-September-2013)