

HOSTAFORM® C 9021 FCT1 | POM | Tribological

Description

This tribological modified grade has a good combination of mechanical properties and tribological properties. The mechanical properties are comparable to Hostaform C 9021 especially the good weld line strength. Furthermore this grade FDA complaint for food contact applications.

| Physical properties | Value | Unit | Test Standard |
|------------------------|-------------|------------------------|---------------|
| Density | 1400 | kg/m ³ | ISO 1183 |
| Melt volume rate (MVR) | 8.5 | cm ³ /10min | ISO 1133 |
| MVR test temperature | 190 | °C | ISO 1133 |
| MVR test load | 2.16 | kg | ISO 1133 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------------|-------------------|---------------|
| Tensile modulus (1mm/min) | 2800 | MPa | ISO 527-2/1A |
| Tensile stress at yield (50mm/min) | 63 | MPa | ISO 527-2/1A |
| Tensile strain at yield (50mm/min) | 9 | % | ISO 527-2/1A |
| Nominal strain at break (50mm/min) | 30 | % | ISO 527-2/1A |
| Charpy notched impact strength @ 23°C | 7.5 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|--------------------------------|------------|------|-------------------|
| Melting temperature (10°C/min) | 166 | °C | ISO 11357-1,-2,-3 |

| Test specimen production | Value | Unit | Test Standard |
|--------------------------------|---------------|------|---------------|
| Processing conditions acc. ISO | 9988-2 | - | 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
8040 Dixie Highway
Florence, KY 41042
USA
Tel.: +1-800-833-4882
Tel.: +1-859-372-3244
email: prodinfo@ticona.com
Ticona on the web: www.ticona.com

Customer Service

Europe

Ticona GmbH
Information Service
Tel.: +49 (0) 180-5842662 (Germany)
+49 (0) 69-30516299 (Europe)
Fax: +49 (0) 180-2021202 (Germany & Europe)
email: infoservice@ticona.de
Internet: www.ticona.com

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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.

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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.

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