



## HOSTAFORM® LM140LGZ | POM | UV Resistant

### Temperature:

	ϕ <sub>Mold</sub>	ϕ <sub>Melt</sub>	ϕ <sub>Nozzle</sub>	ϕ <sub>Zone4</sub>	ϕ <sub>Zone3</sub>	ϕ <sub>Zone2</sub>	ϕ <sub>Zone1</sub>
min (°C)	80	180	185	180	175	170	170
max (°C)	105	195	195	190	185	180	175

### Pressure:

	Inj press	Hold press	Back pressure
min (bar)	600	600	0
max (bar)	1200	1200	5

### Speed:

**Injection speed: slow**

### Special Info:

Use slow injection speed until material passes through gate, then increase.

## Injection Molding

Standard reciprocating screw injection molding machines with a high compression screw (minimum 3:1 and preferably 4:1) and low back pressure (0.35 Mpa/50 PSI) are favored. Using a low compression screw (I.E. general purpose 2:1 compression ratio) can result in unmelted particles and poor melt homogeneity. Using a high back pressure to make up for a low compression ratio may lead to excessive shear heating and deterioration of the material.

Melt Temperature: Preferred range 182-199 C (360-390 F). Melt temperature should never exceed 230 C (450 F).

Mold Surface Temperature: Preferred range 82-93 C (180-200 F) especially with wall thickness less than 1.5 mm (0.060 in.).

May require mold temperature as high as 120 C (250 F) to reproduce mold surface or to assure minimal molded in stress.

Wall thickness greater than 3mm (1/8 in.) may use a cooler (65 C/150 F) mold surface temperature and wall thickness over 6mm (1/4 in.) may use a cold mold surface down to 25 C (80 F). In general, mold surface temperatures lower than 82 C (180 F) may hinder weld line formation and produce a hazy surface or a surface with flow lines, pits and other included defects that can hinder part performance.

## 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](mailto:prodinfo@ticona.com)  
Ticona on the web: [www.ticona.com](http://www.ticona.com)

### Customer Service

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

### 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](mailto:infoservice@ticona.de)  
Internet: [www.ticona.com](http://www.ticona.com)

## HOSTAFORM® LM140LGZ | POM | UV Resistant

### 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)