

## HOSTAFORM® LW15EWX | POM | Tribological

### Description

Hostaform® LW15EWX is a specialty low wear grade of acetal copolymer designed for improved performance including when paired against other thermoplastic resins (PBT, PA, PC, PMMA) or steel. Due to the special wax blend the material has a good weld line strength. Compared to Hostaform® LW90EWX this grade has higher toughness and strength.

Physical properties	Value	Unit	Test Standard
Density	<b>1400</b>	kg/m <sup>3</sup>	ISO 1183
Melt volume rate (MVR)	<b>2.5</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>2650</b>	MPa	ISO 527-2/1A
Tensile stress at yield (50mm/min)	<b>63</b>	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	<b>19</b>	%	ISO 527-2/1A
Nominal strain at break (50mm/min)	<b>32</b>	%	ISO 527-2/1A
Charpy notched impact strength @ 23°C	<b>14.0</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength @ -30°C	<b>11.0</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	<b>173</b>	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	<b>93</b>	°C	ISO 75-1/-2

### 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

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### 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.

The products mentioned herein are not intended for use in medical or dental implants.

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