

# Perfactory® HTM140

Acrylic

EnvisionTEC, Inc.

## Message:

EnvisionTEC's new HTM140 High Temperature Mold Material dramatically changes 3D printing capabilities for manufacturers. With a heat deflection temperature of 140°C straight out of the machine, high definition parts printed in HTM140 can be directly vulcanized in rubber, eliminating the need for a metal master. It is designed to withstand both the heat and pressure of vulcanizing the model in rubber with incredible detail and no loss of dimensional stability. It can also be used in a variety of applications that require thermal resistance such as items to be metallized or tested for high temperature gas and liquid applications. To add to its versatility, another use is for making tools for small run injection molding. It is easily paintable for visual aids.

## Applications

Aerospace, Animation and Entertainment, Architecture and Art, Automotive, Consumer Packaged Goods, Education, Electronics, Manufacturing, Sporting Goods, Toys

## Recommended Machines:

Perfactory® 4 Standard with ERM, Perfactory® 4 Standard XL with ERM, Perfactory® 4 Mini XL with ERM, Perfactory® 4 Mini with ERM, Perfactory® 3 Mini Multi Lens

| General Information                      |  |      |
|--|--|------|
| Features                                 | High Heat Resistance<br>Outstanding Surface Finish<br>Paintable  |      |
| Uses                                     | Aerospace Applications<br>Automotive Applications<br>Consumer Applications<br>Electrical/Electronic Applications<br>Mold Making<br>Molds/Dies/Tools<br>Prototyping<br>Sporting Goods<br>Toys |      |
| Appearance                               | Green<br>Opaque  |      |
| Forms                                    | Liquid   |      |
| Processing Method                        | 3D Printing, Stereolithography   |      |
| Mechanical                               | Nominal Value  | Unit |
| Tensile Strength                         | 56.0   | MPa  |
| Tensile Elongation (Break)               | 3.5  | %    |
| Flexural Modulus                         | 3350   | MPa  |
| Flexural Strength                        | 115  | MPa  |
| Thermal                                  | Nominal Value  | Unit |
| Heat Deflection Temperature <sup>1</sup> | 140  | °C   |

NOTE

1. No heat treatment necessary

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