



# Perfactory® Material

## RC31

EnvisionTEC's RC31 is a high temperature resistant resin for building tough and stiff parts. It can be processed on all Perfactory® products from EnvisionTEC. RC31 is a nanoparticle-filled material that is used to build hard-wearing, stiff and high temperature-resistant parts. They have an opaque peach color appearance. RC31 is ideal for applications requiring superior stiffness and high heat deflection temperature, such as automotive components, pump housings and impellers, wind tunnel test parts, light reflectors, injection molds, hard chrome plating, etc.

Mechanical Properties*		
ASTM Method	Description	RC31
D638M	Tensile Strength Elongation at Break Modulus of Elasticity	35.4 MPa 2.5% 4890 MPa
D790M	Flexural Strength Flexural Modulus	102 MPa 3,860 MPa
D256A	Izod Impact-Notched	0.016 kJ/m <sup>2</sup>
D695-02a	Maximum Compressive Strength Compressive Modulus	127 MPa 4,490 MPa
D1004	Hardness (Shore D)	93.1 Shore

Thermal and Electrical Properties*		
ASTM Method	Description	RC31
E1545-00	Glass Transition Temperature	42 °C
D648-98c	HDT @ 0.455 MPa HDT @ 1.82 MPa	67 °C 53.6 °C

\*All data provided is preliminary data and must be verified by the individual user.

Recommended Machines
Perfactory® 4 Standard with ERM, Perfactory® 4 Standard XL with ERM

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



總代理

保利機械有限公司  
Bolee Machine Tool Ltd.



香港葵涌大連排道21-33號宏達工業中心11樓11110室

Rm 1110, 11/F, Vanta Ind'l Centre, 21-33 Tai Lin Pai Rd., Kwai Chung, Hong Kong

東莞辦：東莞市鳳崗鎮雁田怡紅路怡安(東山)第三座東興樓310 號地舖

廣州辦：廣州市天河區體育西路105號天文苑B2座2502室

URL: [www.boleee.com.hk](http://www.boleee.com.hk)

電話：(852) 2421 8529

E-mail: [boleee@boleee.com.hk](mailto:boleee@boleee.com.hk)

電話：(0769) 8777 3560

電話：(020) 3879 2166

傳真：(852) 2333 4330

傳真：(0769) 8751 0692

傳真：(020) 3879 2205