

The logo for DB 4000 features the letters 'DB' in a bold, dark blue font. To the right of 'DB' is the number '4000' in a light green, outlined font. A small 'TM' trademark symbol is positioned at the top right of the final zero.

HIGH IMPACT DENTURE BASE

DB 4000 High Impact Denture Base is a photocurable, methacrylate-based dental resin designed for the fabrication of dental prosthetics for fully edentulous patients



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Parts were processed following the DB 4000 High Impact Denture Base IFU. Customers are responsible for following the IFU provided when using DB 4000 to guarantee the results reflected in this TDS.

Test Standard	Property	Value
ISO 20795-1	Flexural Modulus	>2000 MPa
ISO 20795-1	Flexural Strength	>65 MPa
ISO 20795-1	Total Fracture Work	>900 J/m ²
ISO 20795-1	Maximum Stress Intensity Factor	>1.9 MPa*m ^{1/2}
modified ISO 20795-1	Total Fracture Work (37 C)	4000 J/m ²
modified ISO 20795-1	Maximum Stress Intensity Factor (37 C)	3.7 MPa*m ^{1/2}
ISO 20795-1	Water Sorption	<32 µg/mm ³
ISO 20795-1	Water Solubility	<1.6 µg/mm ³
ISO 20795-1	Free Monomer Extraction	Pass
ISO 20795-1	Color Stability	Pass
ISO 10993-5	Cytotoxicity	Pass
ISO 10993-23	Irritation	Pass
ISO 10993-10	Sensitization	Pass

Other Properties	
Color	Original Pink, Light Pink, Dark Reddish Pink, Dark Meharry
25 °C Viscosity	3500 cP

Disclaimer

This information is provided for informational purposes only and does not replace DB 4000's FDA-cleared labeling, instructions for use, validated workflow requirements, or applicable regulatory, clinical, dental, laboratory or quality-system obligations.

DB 4000 validation was performed only using the specified workflow described in the applicable instructions for use and technical documentation, including the validated material, equipment, print, wash and cure parameters. Unless expressly stated otherwise in Carbon's FDA-cleared labeling or written instructions for use, DB 4000 has not been validated for alternative workflows, non-dental applications, or dental applications outside the FDA-cleared indication.

Each Carbon customer using DB 4000 is responsible for using it in accordance with its FDA-cleared labeling, instructions for use, validated workflow and applicable law, and for determining whether the customer's design, manufacturing process, equipment, software, post-processing procedures, quality controls and end-use application comply with applicable regulatory and professional requirements.

End-use material performance and test results may vary depending on design, geometry, processing, post-processing, equipment, environmental, operating, end-use, test conditions and other variables. Use outside DB 4000's FDA-cleared labeling, instructions for use or validated workflow is not covered by Carbon's validated performance data and may result in unvalidated safety, performance, fit, durability, mechanical or biocompatibility characteristics.

The information provided herein applies only to DB 4000 as sold by Carbon and used as described in the applicable documentation. Product specifications and technical information are subject to change without notice, subject to applicable regulatory requirements.

Carbon makes no guarantee or representation, and assumes no liability, for customer use of DB 4000 outside its FDA-cleared indication, labeling, instructions for use, validated workflow or applicable technical documentation. Carbon's technical information and technical advice are provided in good faith, but do not expand, modify, or supersede the FDA-cleared labeling or instructions for use and do not constitute regulatory, clinical, dental or legal advice.

Carbon's sole warranty is that DB 4000 will meet Carbon's standard specifications in effect at the time of shipment when used, stored and handled in accordance with Carbon's applicable labeling, instructions for use and written specifications. The exclusive remedy for breach of such warranty is limited to refund of the purchase price or replacement of the product shown to be other than warranted.

TO THE FULLEST EXTENT PERMITTED BY LAW, EXCEPT AS EXPRESSLY SET FORTH IN CARBON'S STANDARD WARRANTY, CARBON MAKES NO REPRESENTATION, PROMISE, EXPRESS WARRANTY, IMPLIED WARRANTY OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR OTHER IMPLIED WARRANTY CONCERNING DB 4000, ITS SUITABILITY FOR ANY USE OUTSIDE ITS FDA-CLEARED LABELING OR INSTRUCTIONS FOR USE OR THE SUITABILITY OF ANY PRINTED ARTICLE OR END-USE PRODUCT MADE, WHOLLY OR IN PART, FROM DB 4000.

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