xDENT201-Gray

A high-resolution material designed for ultrafast production of orthodontic models. Showcasing great accuracy and dimensional stability, xDENT201 is your material of choice when printing models in high volumes for aligner manufacturing or other orthodontic modeling needs. This matte gray resin provides excellent visibility to fine feature details, and you can print a full build of flat models in 20 minutes or less.

Basic Properties

Measurement	Unit	Test Method	2x15min in XiP Cure, 1x30min in xCure, 2x5min 50% in xCure Desktop
Tensile Properties			
Young's Modulus	MPa	ASTM D638	2300
Ultimate Tensile Strength	MPa	ASTM D638	55
Elongation at Break	%	ASTM D638	4
General Properties			
Viscosity	cP	Cone/Plate Rheometer	350
Liquid Density	g/cm^3	ASTM D4052-18a	1.10
Other Properties			
Water Absorption (24hr)	%	ASTM D570	0.5
Shore Hardness	D	ASTM D2240	86

Printing Process

The material should be processed at room temperature. Before usage, the material should be shaken well. Pour it slowly into the vat and wait a couple of minutes, until a smooth, bubble-free surface is obtained before starting the print job.

The 3D printer examples and settings stated above are only for general guidance. The fully optimized settings should always be determined by the users themselves, according to their specific needs. Please always refer to the user manual of the employed 3D printer for instructions on printer settings and handling.

Remove the parts carefully from the build platform with a suitable tool, for more information, refer to the user manual of the used 3D printer.

Washing

xDENT201 requires post processing to achieve specified properties. Prior to post curing, the part should be washed. Nexa3D recommends using IPA as standard cleaning procedure. Parts should not be submerged in IPA for longer than 5 minutes to avoid any impact on performance.

Note: The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Nexa3D is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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