



3DM-DENT

Photopolymer resin for dental applications

The 3DM-DENT resin has been developed to provide to dental labs with an all in one material in order to produce dental models and manufacture clear orthodontic aligners by vacuum thermoforming process, models with dies, models for surgical guide, models with temporary tooth or inlay application. With his opaque aspect, his exceptional surface finish and his temperature resistance, this resin is an ideal choice for different applications in dental laboratories.

The 3DM-DENT resin reproduces accurate details to your models and is highly recommended for printing models which require surface hardness and shape stability.

The opaque aspect for a higher contrast and the color palette proposed have been carefully studies in partnership with dental laboratories for a better optical detection of the surface structure.

Suitable for :

Dental Models
Production of clear orthodontic aligners
by vacuum thermoforming process
Models with Dies & Tempory Teeths
Models with Surgical Guide
Inlay applications

Your benefits :

Opaque & Tough material
Accurate details reproduction
Dimensional stability
Strength & durability
High surface finish
All in one material

MECHANICAL PROPERTIES

Tensile Modulus	ISO 527-2/93	1800-2000 MPa
Tensile Strength	ISO 527-2/93	35-40 MPa
Elongation @ Break	ISO 527-2/93	4-6 %
Flexural Modulus	ISO 178/01	2800-3000 MPa
Flexural Strength	ISO 178/01	90-100 MPa
Izod Notched	ASTM D256	15-20 J/m
Glass Transition Temperature	ISO 6721-7/96	70-75°C
HDT @ 0.45 MPa	ISO75-2/04	60-70°C
Hardness (Shore D)	ISO 868	83-85

RESIN PROPERTIES

Aspect		opaque
Viscosity	@ 30°C	150-200 MPa.s
Density	@ 25°C	1.18 g/cm3
Hardness (shore D)		83-84