



BR3DCM01-DL-HIGH TENSILE Daylight **Precision Transdent**



SPECS

FEATURES

Precision Transdent has been designed as a mid-term, class I biocompatible resin, especially for customised dental and orthodontic applications. The optical appearance of the printed parts make this product highly attractive for dental appliances such as retainers and splints. Photocentric's biocompatible polymers have been formulated to yield hard objects with a high tensile strength. These objects cannot be bent or compressed easily. They exhibit very high tensile shear properties and limited elongation. Precision Transdent provides excellent imaging in your Precision printer. You will experience the benefits of fast exposure times and a wide exposure latitude, allowing you to hold the finest details your Precision can provide. The solid material is strong, durable, and long lasting provided it is stored in dry conditions away from strong UV light. This product has been tested according to the following ISO standards:

ISO 10993-10:2010, ISO 10993-12:2012 , ISO 10993-02:2006, ISO 10993-5:2009 and ISO 10993-12:2012.

Key benefits are that the resin is biocompatible, tough and durable and highly accurate parts with a good finish. Ideal applications include dentistry, dental models and orthodontics, e.g. retainers

PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal's user manual. Polymer should be poured into the tray away from direct sunlight. Polymer can be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times. Liquid polymer is soluble in water and soap. After making cleaned objects surface tack can be removed by leaving under water in sunlight for 10 minutes.

DATA

Viscosity (At 25°C Brookfield spindle 3)	510 cPs
Hardness (After post exposure)	80 Shore D
Tensile strength ASTM D638 (After post exposure)	22 MPa
Tensile strength ASTM D638 (Before post exposure)	65 MPa
Tensile modulus ASTM D638 (After post exposure)	2132 MPa
Elongation at break ASTM D638	6%
Heat deflection temp ASTM D648	63°C
Storage	10<t>50°C
Density	1.16 g/cm ³

AVAILABLE COLOURS

Translucent

Available in 1kg bottles.