

Product Information On
CAVEX LC Dental Tray
Light Curing Tray Material

Introduction

The main purpose of the Cavex LC Dental Tray, light curing tray material is the fabrication of individual and functional impression trays. The material is also indicated for producing base plates for wax-ups and for bite templates.

The sheets are anatomically shaped and vestibular enlarged for better use on moulds of dentate jaws. The design and the handling characteristics make the sheet suitable for the upper as well as the lower jaw. The material can be cured with halogen and UV. Once cured properly the material is dimensional stable.

Cavex LC Dental Tray is developed and manufactured by Cavex Holland B.V. of Haarlem, The Netherlands, a Company that is certified according to the provisions of the Council Directive 93/42/EEC as amended by Directive 2007/47/EC concerning Medical Devices, against ISO 9001 and ISO13485. Cavex LC Dental Tray bears the CE marking of conformity.

Composition

The basic composition of Cavex LC Dental Tray is 5 – 10 % high molecular acrylates with inorganic fillers and pigment.

Manufacturing

The ingredients are carefully weighed and blended in a mixing-machine into a homogeneous mixture. This mixture is extruded to form a strip, that is rolled out between a number of cylinders, gradually reducing the thickness. Finally, the individual plates are stamped and packed.

Laboratory control

The testing-program for individual trays comprises the following internal tests, carried out on a daily basis for every batch produced:

	Cavex LC Dental Tray
general inspection: colour	Pink
General inspection: surface	smooth, no cracks
working properties	comply
daylight resistance 20-2000 LUX	>20 minutes
Weight	27 – 30 gram / sheet
Thickness	Appr. 2.5 mm
Curing time (UV / Halogen)	3 – 5 minutes
Depth of Cure S 9V/67	>3 mm
Depth of Cure S 9V/78	>4 mm
E-Modulus	>11000 MPa
Bending strength	>110 MPa

Shelf-life test

There is no specific shelf-life test described for light curing dental trays. Under normal conditions, the quality of Cavex LC Dental Tray is hardly impaired upon storage.

It is obvious that storage at a too high temperature will lead to blocking of the plates. Moreover, storage for a longer period will lead to pre-setting. It is therefore recommended that the product should be stored at cool to moderate temperatures (- 10 °C / 25°C) Under these conditions, the good quality of Cavex LC Dental Tray can be guaranteed for a period of 3 years.

Quality control

A batch of Cavex LC Dental Tray, that has passed all the tests, is released for sales.

In case of one or more requirements being not in specification, that batch is withdrawn and not sold.

Statement of non-toxicity

Cavex LC Dental Tray does contain monomers which can cause skin allergies. The use of gloves is advised when working with the uncured product. Cavex LC Dental Tray does not contain any hazardous ingredients in sufficient concentration to be harmful to human beings. Therefore, Cavex LC Dental Tray can be safely used and is non-toxic to the patient as well as to the dental team or the dental technician.

Haarlem
CAVEX HOLLAND B.V.