
X PLEX
THE DOUBLE MAKER
THE NEW DUAL HIGH-IMPACT POLYMER
BY CANDULOR

HOT+ COLD

DUAL POLYMER

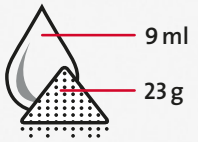
XPLEX – the HIGH-IMPACT polymer for dual use. Developed to cover the different processes and needs in the laboratory. The new polymer is suitable for hot and cold polymerization. Whether packing, pressing or pouring: the choice of HOT or COLD processing, is governed by the respective HOT or COLD monomer component.

XPLEX – THE DOUBLE MAKER

BECAUSE GOOD PROCESSING IS SIMPLY IMPORTANT

HOT »

Mixing (30 sec)	0 min
Swelling time	0.5 min
Start of processing	12 min
End of processing time	40 min



MIXING RATIO
PRESSING TECHNIQUE

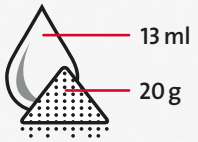
REPAIRS TO XPLEX HOT CAN BE PERFORMED WITH XPLEX COLD.

HOT PROCESSING & COLD PROCESSING

- Full dentures
- Partial dentures
- Combined dentures
- Implant prosthetics

COLD

0 min	Mixing (30 sec)
0.5 min	Swelling time
1.5 min	Start of flow phase for pouring technique
8 min	Start of processing for pressing technique
12 min	End of processing time



MIXING RATIO
POURING & PACKING TECHNIQUE

ADVANTAGES OF XPLEX PRODUCTS IN PROCESSING

- Easy dosing
- Simple mixing technique
- Easy to grind
- Bubble-free workpieces

XPLEX

XPLEX IS CHARACTERIZED IN PARTICULAR BY ITS GOOD FLOW AND MODELING PROPERTIES.

RELIABLE MATERIAL PERFORMANCE ACROSS ALL TECHNIQUES: PRESSING, PACKING, POURING

XPLEX FLEXURAL STRENGTH [MPa]

XPLEX FLEXURAL MODULUS [MPa]

XPLEX FRACTURE TOUGHNESS (K_{MAX}) [MPa $m^{1/2}$]

XPLEX FRACTURE WORK [J/cm^2]

····· Standard values from EN ISO 20795:1

No matter whether you use HOT or COLD processing, the four key measurements show that good material performance is achieved across all finishing processes.

FLEXURAL STRENGTH

The flexural strength is the tensile or compressive stress in the peripheral fiber of a component, which occurs under load and leads to plastic deformation of the component or to breakage.

FLEXURAL MODULUS

The flexural modulus (also known as the modulus of elasticity) describes the linear-elastic behavior of a resin when applying pressure.

FRACTURE TOUGHNESS (K_{MAX})

The fracture toughness factor is a measure of the resistance of a material to abrupt (dynamic) stress.

FRACTURE WORK

Fracture work describes the energy required to fracture the test specimen after the crack opening force (K_{MAX}) occurs.

PERFORMANCE FACTS

THE BENEFITS OF HIGH-IMPACT MATERIAL PROPERTIES

FOR THE LABORATORY Compared to conventional PMMA materials, the fracture resistance is increased significantly. Repairs and additions can be performed with the same material quality.

FOR THE DENTIST The improved physical properties of the material offer high fracture strength, which can contribute to long-lasting dentures and satisfied patients.

FOR THE PATIENT More safety in everyday life, even if the denture should be dropped. Furthermore, the material has a tendency to low plaque adhesion, low discoloration and is easy to clean.

STRONG
PERFORMANCE

XPLEX DENTURES WITH CHARACTER AND HIGH IMPACT STRENGTH

- Good bond to denture teeth
- Good polishability
- Esthetic appearance
- Low adhesion of plaque
- Low tendency to discoloration

CREATING A HIGH-IMPACT ON THE PATIENT THROUGH POWERFUL ESTHETICS

HOT / PRESSING

COLD / PACKING

COLD / POURING

1/

2/

3/ 4/

5/

1 / Trial Kit
2 / 100 g polymer 34, 53, 55, 57
3 / 500 ml / 150 ml HOT monomer
4 / 500 ml / 150 ml COLD monomer
5 / 500 g polymer 1, 3, 5, 34

THE CANDULOR AESTHETIC INTENSIVE COLORS CAN BE USED WITH XPLEX.

Intensive stains for individualized dentures.

XPLEX RANGE

AT A GLANCE

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