



3DM-XPRO

Photopolymer resin for professional applications

The 3DM-XPRO resin was developed mainly for professional uses and produce parts which required high toughness and high modulus while maintaining good thermal properties and a good flexibility. The 3DM-XPRO resin produces parts that are more resistant to fracture and cracking than standard resins in the market.

This resin is an excellent choice for functional parts, especially for snap-fits, complex assemblies and connectors.

This professional resin will produce tough and complex parts for many applications like tooling, sporting goods and also for other demanding applications.

Suitable for :

Mechanical assemblies
Functional parts
Snap-fits & Assemblies
Sporting goods
Tooling & Casing
Prototyping & Automotive

Your benefits :

Fracture & Cracking resistant
Toughness
High impact
Good flexibility
Good thermal properties
Excellent surface finish

MECHANICAL PROPERTIES

Tensile Modulus	ISO 527-2/93	1700-2000 MPa
Tensile Strength	ISO 527-2/93	45-50 MPa
Elongation @ Break	ISO 527-2/93	8-15%
Flexural Modulus	ISO 178/01	1800-2220 MPa
Flexural Strength	ISO 178/01	70-80 MPa
Glass Transition Temperature	ISO 6721-7/96	70-88°C
HDT @ 0.45 MPa	ISO75-2/04	50-60°C
HDT @ 1.80 MPa	ISO75-2/04	40-50°C
Hardness (Shore D)	ISO 868	80-84
Fracture toughness - K1c	ISO 13586 / 20795-1	1,25-1,45 MPa√m
Fracture toughness - G1c	ISO 13586 / 20795-1	850-1000 J/m2

RESIN PROPERTIES

Aspect		opaque
Viscosity	@ 25°C	300-400 MPa.s
Density	@ 25°C	1,17 g/cm3