



3DM-XSeries

Photopolymer resin for fonctional parts

Our 3DM-XSeries resin is designed for parts which require toughness with high modulus while maintaining good thermal properties and flexibility.

3DM-XSeries resin produces parts that are more resistant to fracture and cracking than standard resins.

This resin is an excellent choice for functional performance parts, especially for snap-fit and connectors.

This high impact material can also produce tough and complex parts for many other applications (i.e. impellers, sporting goods,.....)

Suitable for :

Mechanical assemblies
Fonctional parts
Snap-fit
Sporting goods
Tooling & Casing
Prototyping & Automotive

Your benefits :

Fracture resistant
High impact
High toughness
Flexibility
Good thermal properties
Excellent surface finish

MECHANICAL PROPERTIES

Tensile Modulus	ISO 527-2/93	2280 MPa
Tensile Strength	ISO 527-2/93	50 MPa
Elongation @ Break	ISO 527-2/93	10,00%
Elongation @ Yield	ISO 527-2/93	5,00%
Flexural Modulus	ISO 178/01	2220 MPa
Flexural Strength	ISO 178/01	82 MPa
Elongation @ Break	ISO 178/01	15,00%
Glass Transition Temperature	ISO 6721-7/96	88°C
HDT @ 0.45 MPa	ISO75-2/04	61°C
HDT @ 1.80 MPa	ISO75-2/04	50°C
Hardness (Shore D)	ISO 868	83

RESIN PROPERTIES

Aspect		opaque green light
Viscosity	@ 30°C	350-400 MPa.s
Density	@ 25°C	1.12 g/cm3