



# 3DM-XGreen

## Photopolymer resin for functional parts

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

3DM-XGreen 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  
Functional 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	2300 MPa
Tensile Strength	ISO 527-2/93	50 MPa
Elongation @ Break	ISO 527-2/93	/#0**1
Elongation @ Yield	ISO 527-2/93	20**1
Flexural Modulus	ISO 178/01	2200 MPa
Flexural Strength	ISO 178/01	82 MPa
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	5) & 5:

## RESIN PROPERTIES

Aspect		opaque green
Viscosity	@ 28°C	380-420 MPa.s
Density	@ 25°C	1.12 g/cm <sup>3</sup>