



3DM-IMPACT

Photopolymer resin for high performance functional parts

The 3DM-IMPACT material was designed for parts which require toughness with high modulus while maintaining a good flexibility. This multipurpose material resist to shocks without breaking, showing his high impact toughness to produces models that are more resistant to fracture and cracking than other known resins in this market.

The 3DM-IMPACT resin is an excellent choice to print high performance functional parts like snap-fits, electrical casings, jigs, fixtures and tooling.

This material also fullfil the requirements of many other functional applications like the sporting goods, automotive parts, orthopedics, etc.

The other outstanding feature of this material is that it has the ability to provide shape memory effect to your printed parts depending on the temperature which makes the 3DM-IMPACT resin an advanced material compare to other profesional brands.

Suitable for :

High performance functional parts
Tooling & Electrical casing
Snap-fits, Jigs & Fixtures
Multipurpose material
Sporting goods

Your benefits :

Shocks & Fracture resistant
High impact material
Flexibility & High elongation
Shape memory effect
Smooth surface finish

MECHANICAL PROPERTIES

Tensile Modulus	ISO 527-2/93	2000-2700 MPa
Tensile Strength	ISO 527-2/93	45-58 MPa
Elongation @ Break	ISO 527-2/93	12-22%
Flexural Modulus	ISO 178/01	1800-2300 MPa
Flexural Strength	ISO 178/01	60-70 MPa
Glass Transition Temperature	ISO 6721-7/96	70-75°C
HDT @ 0.45 MPa	ISO75-2/04	45-55°C
Hardness (Shore D)	ISO 868	78-82
Fracture toughness - K1c	ISO 13586 / 20795-1	1,50-2,00 MPa√m
Fracture toughness - G1c	ISO 13586 / 20795-1	1000-1800 J/m2

RESIN PROPERTIES

Aspect		opaque
Viscosity	@ 25°C	550-600 MPa.s
Density	@ 25°C	1,18 g/cm3