



3DM-TECH

Photopolymer resin for manufacturing end-use parts

The 3DM-TECH resin is a material especially developed for 3D print end-use parts. Its dimensional stability, its accuracy and its exceptional surface finish gives to your printed models a surface quality comparable to injection-molded plastic materials. The 3DM-TECH material offers superior resistance to stress and deformation similar to PP thermoplastic, making it ideal for manufacturing parts in a wide variety of industries such as automotive, sport, eyewear and goods of consumption. Furthermore, its high-performance mechanical and flexibility properties makes the 3DM-TECH material ideal for the production of models which can be handling carelessly. This material was mainly designed for parts requiring a good balance between operating temperature, flexural modulus and elongation at break. From industrial design to the production of functional and technical parts, the 3DM-TECH resin can be also use to print all kinds of models and prototypes.

Suitable for :

End-use parts
Functional & Technical parts
Models & Prototypes
Automotive
Sport, Eyewears, Goods of consumption

Your benefits :

PP like thermoplastic
High-performance properties
Dimensional stability
Exceptional surface finish
Very low shrinkage & warping

MECHANICAL PROPERTIES

Tensile Modulus	ISO 527-2/93	1800-2000 MPa
Tensile Strength	ISO 527-2/93	45-55 MPa
Elongation @ Break	ISO 527-2/93	25-35%
Flexural Modulus	ISO 178/01	1700-1900 MPa
Flexural Strength	ISO 178/01	80-90 MPa
Glass Transition Temperature	ISO 6721-7/96	80-90°C
HDT @ 0.45 MPa	ISO75-2/04	50-55°C
HDT @ 1.82 MPa	ISO75-2/04	40-45°C
Hardness (Shore D)	ISO 868	78-80
Izod Impact	ASTM 256	45-55 J/m

RESIN PROPERTIES

Aspect		black, clear
Viscosity	@ 25°C	400-500 mPa.s
Density	@ 25°C	1,15 g/cm3