

WaterTight Proto

Material Introduction



Introduction

WaterTight Proto is a photo sensitive resin material with tough texture and excellent waterproof performance developed by DSM which can be used to make precision parts for prototyping and functional testing.

Advantages

The parts have excellent toughness performance, small shrinkage, stability, excellent moisture resistance, wear resistance and durability.

Disadvantage

The material is yellowish in color

Tolerance

200 μ m or 0.2%

Recommendation

The material has both toughness and strength, is widely used, and can be used for batch parts.

Attention >

This material is the latest research and development material, the product color is a little yellow, need to understand in advance, if you have better requirements for appearance color, please choose other resin material.

Attributes

Heat distortion temperature (0.46 MPa) (ASTM Method D638): 58 °C

Hardness: 80

Tensile modulus(ASTM Method D638):	2600MPa
Tensile Strength(ASTM Method D638)) :	50MPa
Elongation at break (ASTM Method D638):	11%
Yield Strain (ASTM Method D638):	3.4%
Notched impact strength (ASTM Method D256):	36KJ/m
Water absorption (ASTM Method D570-98) :	0.26%

Applications

- Auto parts and prototypes for structural and functional verification
Such as car baffle, rearview mirror, instrument panel, steering wheel, lights, seats and handles of the structure and function verification
- House hold appliances shells and prototypes.
Structure and function verification of air conditioner, air purifier, vacuum cleaner, electric fan, ironing machine, drinking machine, juicer, hair dryer, etc
- Medical products
Such as various medical assistance models, medical teaching models and so on.
- Mechanical and electrical equipment structure and appearance verification.
Such as industrial display panels, cameras, switches, sockets, power tools, electrical instruments, experimental instruments, measuring tools and so on.
- All kinds of parts
Durable, small batch production parts
- Moisture/water proof conceptual model