JP3000 Resin

DSM128 is a low viscosity photosensitive resin material developed by DSM company. The products produced by DSM128 are characterized by high smoothness and stable performance. It is widely used and its properties are similar to those of engineering plastics ABS and PBT.

Material Advantages	Smooth surface, stable dimension, high precision, good toughness performance, waterproof and moisture-proof, easy to produce.
Material Disdvantages	Medium toughness and strength
Tolerance Variation	3 days: 0.15mm or 0.15% 7 days: 0.2mm or 0.20% 15 days: 0.25mm or 0.25%
Production Precision	100mm ±0.1mm
Product Description	Widely used in the production of various functional parts, manufacturing tools, etc.

Notice

The outstanding characteristic of this material is the fine detail expressiveness and dimensional precision. Please consult account manager to recommend suitable material, if you have special requirements to toughness, strength, temperature resistance.

Property Parameters

Thermal Deformation Temperature(HDT@0.455 MPa) (ASTM Method D648) : 52.3 ℃
Thermal Deformation Temperatur (HDT@1.82 MPa) (ASTM Method D648) : 49.6 ℃
Shore Hardness (ASTM Method D2240) : 82 D
Tensile Strength (ASTM Method D638) : 56.8 MPa
Tensile Modulus (ASTM Method D638) : 2964 MPa
Elongation at Break (ASTM Method D638) : 11 %
Bending Modulus (ASTM Method D790) : 2654 Mpa
Notched Impact Strength (ASTM Method D256) : 38.9 J/m
Water Absorption Rate (ASTM Method D570-98) : 0.4%

Application Area

- **Auto Parts and Prototypes for Structural and Functional Verification**
  Prototype and functional verification of automobile baffle, rearview mirror shell, multi-function steering wheel, safety handle and other applications
- **Digital electronic products structure verification, appearance verification**
  Router, set-top box, socket shell, air conditioner, fan, hair dryer, razor, etc
- **Mechanical and Electrical Equipment Structure and Appearance Verification**
  Switches, sockets, power tools, instrument panel, experiments together, fixtures, etc