

JP1800 is a colorless transparent material with proven dimensional stability, suitable for general use, detailed modeling, and transparent visual simulation.



Material Advantages

High surface quality, smooth surface, waterproof, and great dimensional stability. After polishing and oil spraying, the product is closed to colorless.

Material Disadvantages

Difficult to be transparent in complex structures

Production Precision

100mm \pm 0.1mm

Product Description

Widely used in the production of various functional parts, manufacturing tools, etc.

Notice

There may be bubbles in the printing process of the material, so it is necessary to communicate with technicians to adjust the processing mode and design of the model, so as to ensure the effect of the finished product.

Property Parameters

Thermal Deformation Temperature (HDT@0.455 MPa) (ASTM Method D648) : 52 °C

Thermal Deformation Temperature (HDT@1.82 MPa) (ASTM Method D648) : 50 °C

Shore Hardness (ASTM Method D2240) : 83-85 D

Tensile Strength (ASTM Method D638) : 41.56mpa

Elongation at Break (ASTM Method D638) : 9%

Bending Strength (ASTM Method D790) : 75.95 Mpa

Bending Modulus (ASTM Method D790) : 1740.56 mpa

Notched Impact Strength (ASTM Method D256) : 24 J/m

Water Absorption Rate (ASTM Method D570-98) : 0.5%

Application Area

■ Transparent shell parts for electronic appliances

Transparent enclosure, protective enclosure, lighting assembly, packaging, conceptual model, fluid analysis test, etc

■ High quality lost-foam mold for precision casting

High quality mold for investment casting

■ Art and exhibition models

Architectural model, display sample with complex structure inside, design prototype of water bottle and beverage bottle

■ Medical device shell, transparent organ model

Orthopedic model, cardiac model, intracranial model; Treatment device enclosure