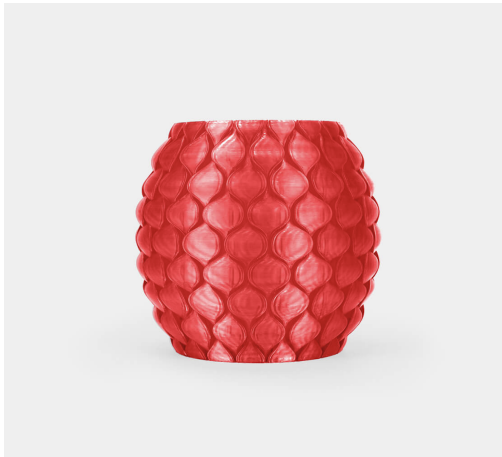


PVB

ENGINEERING PLASTICS FOR FDM 3D PRINTING



MATERIAL NAME

PVB

COLOR

Transparent

PROCESS

FDM

PRODUCT DESCRIPTION

PVB is a transparent/translucent material suitable for FDM printing and can be smoothed by alcohol vapor. After surface treatment, it can obtain better gloss and light transmission effects, and is suitable for exterior displays, lampshades, windows and decorative models.

TYPICAL APPLICATIONS

- Low-cost rapid prototyping
- Functional prototype testing
- Appearance display
- Assembly testing

PRODUCT SAFETY

Thermoplastic printed parts should be handled according to normal workshop safety practices. Avoid high heat, open flames, and inhalation of fumes generated during post-processing or overheating.

PRODUCT DELIVERY & WAREHOUSING

- STORAGE**
Store parts in a dry, cool, and clean environment away from direct sunlight and high heat. Keep the material sealed before processing.
- TRANSPORTATION**
Pack parts securely to prevent warping, scratching, and impact. Protect from moisture and temperature swings during transit.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Density (g/cm3)	ISO 1183	1.08 g/cm3
Water Absorption (%)	ISO 62	5.0~8.0%
Hardness	ISO 868	Shore D 82.5
Tensile strength (MPa)	ISO 527	48±5 MPa
Elongation at break	ISO 527	14±3%
Flexural strength (MPa)	ISO 178	78±6 MPa
Flexural modulus (MPa)	ISO 178	2250±200 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 55.8±3 deg C
Impact strength notched	ISO 180	6.5±2 KJ/m²; ISO 180 (Izod)

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>