

Description

GODART8228 is a low-viscosity liquid photopolymer that can be applied to the high-accuracy stereolithography apparatus with high building speed and parts resolution. GODART8228 creates high hardness, PBT like parts with outstanding performance of water resistance, excellent thermostability, small shrinkage, durable and marvelous dimensional stability, besides, the parts possess a certain adsorptivity, which can meet the general demands for painting and coating. Also, the parts provide good mechanical property, therefore, GODART8228 is an ideal printing material.



Applications

GODART8228 can be applied in a variety of fabrication for case molds, concept models, general parts and functional prototypes in industrial circle such as automotive, medical and consumer electronics markets.

TECHNICAL DATA - LIQUID PROPERTIES

Appearance	Green Viscous Liquid
Rotary Viscosity	~486 mPa·s@ 25 °C
Density	~1.15 g/cm ³ @ 30 °C

TECHNICAL DATA - OPTICAL PROPERTIES

E _c [critical exposure]	7.8 mJ/cm ²
D _p [slope of cure-depth vs. ln(E) curve]	0.120 mm
Layer thickness of constructing	0.10 mm

TECHNICAL DATA – MECHANICAL/ THERMAL PROPERTIES			
Property Description	ASTM Method	GODART8228 (UV Postcure)	PBT
Tensile Strength	D638M	51 MPa	45.7 MPa
Tensile Modulus	D638M	2136 MPa	N/A
Elongation at Break	D638M	10 %	42 %
Flexural Strength	D790	94 MPa	73.5 MPa
Flexural Modulus	D790	2155 MPa	2300 MPa
Izod Impact(Notched)	D256A	36 J/m	120 J/m
Hardness(Shore D)	D2240-15	86	98-120(Rockwell)
Water Absorption	D570	0.44 %	0.16 %
Tg	D6604	63	N/A
HDT@1.82 MPa	D648	56	86.4-194 °C

Notes:

Operating temperature and storage temperature of GODART8228 cannot be too high. The operating temperature range is 30±2 °C, and the storage temperature range is 25±5 °C.