

ProteGen 18420

TECHNOLOGY: SLA

APPLICATIONS: Medical / Electronic / Aerospace / Automotive

DESCRIPTION:

ProtoGen O-XT 18420 is a liquid, ABS-like, photopolymer that produces accurate parts ideal for general purpose applications. ProtoGen resins are the first SLA resins to demonstrate different material properties based on machine exposure control. 18420 offers superior chemical resistance, a wide processing latitude and excellent tolerance to a broad range of temperatures and humidities, both during and after build.

This high-temperature, ABS-like photopolymer is used in the solid imaging process to build three-dimensional parts. 18420 provides considerable processing latitude and is ideal for the medical, electronic, aerospace and automotive markets that demand:

- Accurate RTV patterns
- Durable concept models
- Highly accurate parts
- Humidity and temperature tolerant parts

TECHNICAL DATA

PROPERTY	ASTM	METRIC UNITS
Tensile Strength	D638M	42.2 - 43.8 MPA
Tensile Modulus	D638M	2,180 - 2,310 %
Elongation at Break	D638M	8 - 16 %
Flexural Strength	D790M	66.7 - 70.5 MPA
Flexural Modulus	D790M	1,990 - 2,130 MPA
Izod Impact (Notched)	D256A	0.20 - 0.22 J/CM
Hardness (Shore D)	D2240	86 - 88
Water Absorption	D570-98	0.68%