

Crysta-8QEF1

Product Description

Crysta-8QEF1 is a clear Stereolithography (SLA) resin which has accurate and durable features. It is designed for solid state SLA platforms. Crysta-8QEF1 can be applied in master patterns, concept models, general parts and functional prototypes in the field of automotive, medical and consumer electronics industries.

Typical Features

- Superior clarity and builds parts with good dimensional stability and excellent accuracy.
- Resin's medium viscosity supports facilitates easier post-curing and less part finishing time.
- Ideal for vacuum casting master patterns.
- Mid-range strength and toughness.
- Easy to burn completely.

Physical Properties (Liquid)

Appearance	Clear, transparent
Density	~1.12 g/cm ³ @25 °C
Viscosity	312 - 420 cps@28 °C

Optical Properties

Critical Exposure (Ec)	9.8 - 12 mJ/cm ²
Penetration Depth (Dp)	0.18 mm
Recommended Layer Thickness of Construction	0.1 mm

Mechanical Properties (90-minute UV post-cure)

Property Description	Test Method	Metric
Heat Deflection Temperature (HDT)	ASTM D648 @ 66 psi	40 - 51 °C
Glass Transition (Tg)	DMA, E" peak	42 - 58 °C
Tensile Modulus	ASTM D638	2490 - 2660 MPa
Flexural Modulus	ASTM D790	2570 - 2860 MPa
Tensile Strength	ASTM D638	48 MPa
Flexural Strength	ASTM D790	75 - 81 MPa
Izod Impact (Notched)	ASTM D256	27 - 35 J/m
Elongation at Break	ASTM D638	7 - 11%
Hardness (Shore D)	ASTM D2240	76 - 82

Note: Material performance may vary depending on application, processing conditions and end-use environment. The information in this spec sheet is provided as typical values only and is not guaranteed.