

Prototherm 12120

TECHNOLOGY: SLA

APPLICATIONS: Applies to many applications across automotive and aerospace industries where strong parts that can resist high temperatures are needed.

DESCRIPTION: SLA materials mimic a wide array of engineering plastics, elastomers and composites. ProtoTherm materials deliver high temperature resistance with exceptional surface finishing.

FEATURES: Strong, high-temperature tolerant, water-resistant.

Color Options: Cherry-red appearance which turns to an Orange-red color after thermal treatment.

TECHNICAL DATA

PROPERTY	ASTM	METRIC UNITS UV POSTCURE	METRIC UNITS THERMAL POSTCURE
Tensile Strength	D638M	70.2 MPa	77 MPa
Modulus of Elasticity, Youngs Modulus	D638M	3,250 MPa	3,250 MPa
Elongation Break (%)	D638M	4 %	4.5 %
Flexural Strength	D790M	109 MPa	103 MPa
Flexural Modulus	D790M	3,320 MPa	3,060 MPa
IZOD Impact Strength (notched)	D256A	0.12 J/m	0.17 J/m
Heat Deflection Temperature @ 0.45 MPa/66 psi, (°C)	D648	56.5 °C	126.2 °C

