



RESIN PROPERTIES

Photopolymer Resin STD-CLEAR

Revision Date: August 2, 2018

MECHANICAL PROPERTIES	METHOD	AFTER PRINT	POST CURED
Ultimate Tensile Strength	ASTM D 638-10	26 MPa	45 MPa
Young's Modulus	ASTM D 638-10	0.6 GPa	1.3 GPa
Elongation at Failure	ASTM D 638-10	17%	13%
Flexural Modulus	ASTM C 790-10	0.8 GPa	1.9 GPa
Notched IZOD	ASTM D 256-10	18 J/m	25 J/m

HARDNESS PROPERTIES	ASTM D 638-10		
Hardness Shore D	per ISO 868:2003	72D	80D

THERMAL PROPERTIES			
Heat deflection temp. @ 264 psi	ASTM D 648-07	49 °C	59 °C
Heat deflection temp. @ 66 psi	ASTM D 648-07	52 °C	70 °C



RESIN PROPERTIES

Photopolymer Resin STD-GRAY

Revision Date: August 2, 2018

MECHANICAL PROPERTIES	METHOD	AFTER PRINT	POST CURED
Ultimate Tensile Strength	ASTM D 638-10	26 MPa	45 MPa
Young's Modulus	ASTM D 638-10	0.6 GPa	1.3 GPa
Elongation at Failure	ASTM D 638-10	17%	13%
Flexural Modulus	ASTM C 790-10	0.8 GPa	1.9 GPa
Notched IZOD	ASTM D 256-10	18 J/m	25 J/m

HARDNESS PROPERTIES	ASTM D 638-10		
Hardness Shore D	per ISO 868:2003	72D	80D

THERMAL PROPERTIES			
Heat deflection temp. @ 264 psi	ASTM D 648-07	49 °C	59 °C
Heat deflection temp. @ 66 psi	ASTM D 648-07	52 °C	70 °C



RESIN PROPERTIES

Photopolymer Resin STD-BLUE

Revision Date: August 2, 2018

MECHANICAL PROPERTIES	METHOD	AFTER PRINT	POST CURED
Ultimate Tensile Strength	ASTM D 638-10	26 MPa	45 MPa
Young's Modulus	ASTM D 638-10	0.6 GPa	1.3 GPa
Elongation at Failure	ASTM D 638-10	17%	13%
Flexural Modulus	ASTM C 790-10	0.8 GPa	1.9 GPa
Notched IZOD	ASTM D 256-10	18 J/m	25 J/m

HARDNESS PROPERTIES	ASTM D 638-10		
Hardness Shore D	per ISO 868:2003	72D	80D

THERMAL PROPERTIES			
Heat deflection temp. @ 264 psi	ASTM D 648-07	49 °C	59 °C
Heat deflection temp. @ 66 psi	ASTM D 648-07	52 °C	70 °C



RESIN PROPERTIES

Photopolymer Resin STD-RED

Revision Date: August 2, 2018

MECHANICAL PROPERTIES	METHOD	AFTER PRINT	POST CURED
Ultimate Tensile Strength	ASTM D 638-10	26 MPa	45 MPa
Young's Modulus	ASTM D 638-10	0.6 GPa	1.3 GPa
Elongation at Failure	ASTM D 638-10	17%	13%
Flexural Modulus	ASTM C 790-10	0.8 GPa	1.9 GPa
Notched IZOD	ASTM D 256-10	18 J/m	25 J/m

HARDNESS PROPERTIES	ASTM D 638-10		
Hardness Shore D	per ISO 868:2003	72D	80D

THERMAL PROPERTIES			
Heat deflection temp. @ 264 psi	ASTM D 648-07	49 °C	59 °C
Heat deflection temp. @ 66 psi	ASTM D 648-07	52 °C	70 °C



RESIN PROPERTIES

Photopolymer Resin STD-YELLOW

Revision Date: August 2, 2018

MECHANICAL PROPERTIES	METHOD	AFTER PRINT	POST CURED
Ultimate Tensile Strength	ASTM D 638-10	26 MPa	45 MPa
Young's Modulus	ASTM D 638-10	0.6 GPa	1.3 GPa
Elongation at Failure	ASTM D 638-10	17%	13%
Flexural Modulus	ASTM C 790-10	0.8 GPa	1.9 GPa
Notched IZOD	ASTM D 256-10	18 J/m	25 J/m

HARDNESS PROPERTIES	ASTM D 638-10		
Hardness Shore D	per ISO 868:2003	72D	80D

THERMAL PROPERTIES			
Heat deflection temp. @ 264 psi	ASTM D 648-07	49 °C	59 °C
Heat deflection temp. @ 66 psi	ASTM D 648-07	52 °C	70 °C



RESIN PROPERTIES

Photopolymer Resin CAST ULTRA-O

Revision Date: August 2, 2018

MECHANICAL PROPERTIES	METHOD	AFTER PRINT	POST CURED
Ultimate Tensile Strength	ASTM D 638-10	12 MPa	25 MPa
Young's Modulus	ASTM D 638-10	0.2 GPa	0.5 GPa
Elongation at Failure	ASTM D 638-10	12%	7%
Flexural Modulus	ASTM C 790-10		
Notched IZOD	ASTM D 256-10		

HARDNESS PROPERTIES	ASTM D 638-10		
Hardness Shore D	per ISO 868:2003	45D	65D

THERMAL PROPERTIES			
Heat deflection temp. @ 264 psi	ASTM D 648-07		
Heat deflection temp. @ 66 psi	ASTM D 648-07		