

SLA

CRYSTAL

SNAP-FIT

DURABLE

FAST

Description

RR60CR is a crystal clear, tough ABS like, dimensionally stable resin for 355nm Solid State Laser Systems.

Ideal for general purpose and dimensionally challenging builds. Its low viscosity with excellent re-wetting provide fast build times increasing productivity.

General Properties

Colour: Crystal Clear

Viscosity: 270 cps

Ec: 11.2 mj/cm²

Dp: 6.6 mils

Density: 1.12 g/cm³

Mechanical Properties

Tensile Strength	ASTM D638	52 Mpa
Tensile Modulus	ASTM D638	2500 Mpa
Elongation at break	ASTM D638	6-10%
Flexural Strength	ASTM D790	82 Mpa
Flexural Modulus	ASTM D790	2000 Mpa
Impact Strength	ASTM D256	21.4 J/m
Notched Izod	ASTM D256	0.4 ft-lb/in
Hardness	ASTM D2240	83 shore D
Water Absorbtion	ASTM D570-98	0.25%
Heat Deflection @ 66 psi	ASTM D648	55 deg C
Heat Deflection @ 264 psi	ASTM D648	50 deg C

Part characteristics and performance with layer and additive manufacturing processes are directly related to part geometry and part orientation. Part performance may vary based on application, equipment used, build orientation and operating conditions. Information contained herein is provided as guidance only and Raplas International Ltd makes no warranty as to its correctness and accuracy. Material selection is to be based upon customer trial and approval of materials or appropriate test part builds.

SLA

CLEAR

SNAP-FIT

DURABLE

FAST

Description

RR60CL is a clear, tough ABS like, dimensionally stable resin for 355nm Solid State Laser Systems.

Ideal for general purpose and dimensionally challenging builds. Its low viscosity with excellent re-wetting provide fast build times increasing productivity.

General Properties

Colour: Clear

Viscosity: 270 cps

Ec: 11.2 mj/cm²

Dp: 6.6 mils

Density: 1.12 g/cm³

Mechanical Properties

Tensile Strength	ASTM D638	52 Mpa
Tensile Modulus	ASTM D638	2500 Mpa
Elongation at break	ASTM D638	6-10%
Flexural Strength	ASTM D790	82 Mpa
Flexural Modulus	ASTM D790	2000 Mpa
Impact Strength	ASTM D256	21.4 J/m
Notched Izod	ASTM D256	0.4 ft-lb/in
Hardness	ASTM D2240	83 shore D
Water Absorbtion	ASTM D570-98	0.25%
Heat Deflection @ 66 psi	ASTM D648	55 deg C
Heat Deflection @ 264 psi	ASTM D648	50 deg C

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SLA

WHITE

SNAP-FIT

DURABLE

FAST

Description

RR60WH is a tough ABS like, dimensionally stable resin for 355nm Solid State Laser Systems.

Ideal for general purpose and dimensionally challenging builds. Its low viscosity with excellent re-wetting provide fast build times increasing productivity.

General Properties

Colour: White

Viscosity: 290 cps

Ec: 10.6 mj/cm²

Dp: 6.6 mils

Density: 1.12 g/cm³

Mechanical Properties

Tensile Strength	ASTM D638	54 Mpa
Tensile Modulus	ASTM D638	2920 Mpa
Elongation at break	ASTM D638	4-6%
Flexural Strength	ASTM D790	85 Mpa
Flexural Modulus	ASTM D790	2670 Mpa
Impact Strength	ASTM D256	18.6 J/m
Notched Izod	ASTM D256	0.35 ft-lb/in
Hardness	ASTM D2240	81 shore D
Water Absorbtion	ASTM D570-98	0.25%
Heat Deflection @ 66 psi	ASTM D648	54 deg C
Heat Deflection @ 264 psi	ASTM D648	50 deg C

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SLA

GRAY

SNAP-FIT

DURABLE

FAST

Description

RR60GR is a tough ABS like, dimensionally stable resin for 355nm Solid State Laser Systems.

Ideal for general purpose and dimensionally challenging builds. Its low viscosity with excellent re-wetting provide fast build times increasing productivity.

General Properties

Colour: Gray

Viscosity: 290 cps

Ec: 10.6 mj/cm²

Dp: 6.6 mils

Density: 1.12 g/cm³

Mechanical Properties

Tensile Strength	ASTM D638	54 Mpa
Tensile Modulus	ASTM D638	2920 Mpa
Elongation at break	ASTM D638	4-6%
Flexural Strength	ASTM D790	85 Mpa
Flexural Modulus	ASTM D790	2670 Mpa
Impact Strength	ASTM D256	18.6 J/m
Notched Izod	ASTM D256	0.35 ft-lb/in
Hardness	ASTM D2240	81 shore D
Water Absorbtion	ASTM D570-98	0.25%
Heat Deflection @ 66 psi	ASTM D648	54 deg C
Heat Deflection @ 264 psi	ASTM D648	50 deg C

Part characteristics and performance with layer and additive manufacturing processes are directly related to part geometry and part orientation. Part performance may vary based on application, equipment used, build orientation and operating conditions. Information contained herein is provided as guidance only and Raplas International Ltd makes no warranty as to its correctness and accuracy. Material selection is to be based upon customer trial and approval of materials or appropriate test part builds.