

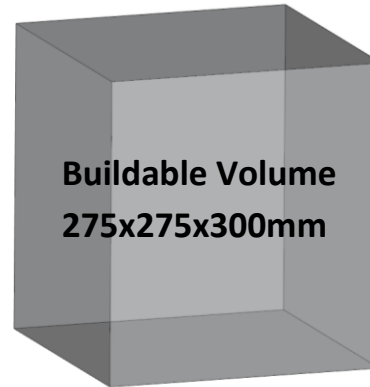


R3D LTD - SLS data sheet

Prodways ProMaker P1000

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Current Material specification:

Materials coming soon:

	PA12-L 1600^{(1) (3)}
Specification	<ul style="list-style-type: none"> General purpose material with excellent mechanical properties and high elongation at break Low water absorption and easy to process Good recyclability
Typical Application Examples	Wide range of prototyping and rapid manufacturing applications
Appearance	White
Average particle size	N.A
Bulk Density	0.48 g/cm ³
Density of parts	0.95 g/cm ³
Moisture absorption	N.A
Melting Point	183°C
Heat Deflection 1.8 MPa	83.5°C
Tensile Strength	46 MPa
Tensile Modulus	1602 MPa
Elongation @ break	36%
Flexural Strength	46.3 MPa
Flexural Modulus	1300 MPa
Impact Strength (unnotched Izod)	13.2 KJ/m ²
Shore Test	N.A
Resistivity domain	Insulator
Upper facing processed & blasting, Surface Ra	N.A
Upper facing after Finishing, Surface Ra	N.A
Testing standard / Certification	GB/T

	PP 1200⁽¹⁾
Specification	<ul style="list-style-type: none"> Bringing the Polypropylene mechanical characteristics to the SLS® market, allowing the development of new applications Easy to process and with a 30% Refresh rate
Typical Application Examples	Parts that need ductility, Living hinges, Low friction elements, Chemical resistant needs, Low density parts (lighter)
Appearance	White/translucent
Average particle size	70 µm
Bulk Density	0.33 g/cm ³
Density of parts	0.89 g/cm ³
Moisture absorption	N.A
Melting Point	136°C
Heat Deflection 1.8 MPa	53°C
Tensile Strength	28 MPa
Tensile Modulus	1250 MPa
Elongation @ break	25%
Flexural Strength	/
Flexural Modulus	1150 MPa
Impact Strength (unnotched Izod)	25 KJ/m ²
Shore Test	72 Shore D
Resistivity domain	/
Upper facing processed & blasting, Surface Ra	/
Upper facing after Finishing, Surface Ra	/
Testing standard / Certification	ISO

	PA12-S 1550⁽¹⁾
Specification	<ul style="list-style-type: none"> Fine granulometry for excellent outline and surface quality Low porosity, UV stable High recyclability for lower operating costs
Typical Application Examples	Prototyping and small series for a wide range of applications including Formula 1, Automotive, Medical, Aerospace, Military, Luxury industry
Appearance	Natural + mass coloring Black/Blue/Red/Grey
Average particle size	42 µm
Bulk Density	0.50 g/cm ³
Density of parts	0.98 g/cm ³
Moisture absorption	0.50% (ASTM D570)
Melting Point	181°C - 183 °C
Heat Deflection 1.8 MPa	86°C
Tensile Strength	44 MPa
Tensile Modulus	1550 MPa
Elongation @ break	15%
Flexural Strength	N.A
Flexural Modulus	1350 MPa
Impact Strength (unnotched Izod)	68 KJ/m ²
Shore Test	68 Shore D
Resistivity domain	Insulator
Upper facing processed & blasting, Surface Ra	7 µm
Upper facing after Finishing, Surface Ra	7 µm
Testing standard / Certification	ISO