



True Silicone (A50)

Alternative Designations

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Key Features

High wear resistance • Elasticity • High resolution

Description

True silicone 3D printing is similar to liquid injection moulding but it doesn't require moulds which makes it faster and cheaper than injection moulding. It is 100% made from silicone (no additional resins or acrylates). This material has a high resolution, an excellent surface finish, and is resistant to acids, bases and non-polar solvents. It has high wear resistance, elasticity and high reproducibility after deformation or loading. It's biocompatible and certified in accordance with ISO 10993.

Mechanical Properties

Tensile strength	7.25 N/mm ²
Elongation at break	530%
Hardness	50

Thermal Properties

Temperature range	-30 -180°C
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Physical Properties

Density	1.11 g/cm ³
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Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.



True Silicone (A20)

Alternative Designations

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Key Features

High wear resistance • Elasticity • High resolution

Description

True silicone 3D printing is similar to liquid injection moulding but it doesn't require moulds which makes it faster and cheaper than injection moulding. It is 100% made from silicone (no additional resins or acrylates). This material has a high resolution, an excellent surface finish, and is resistant to acids, bases and non-polar solvents. It has high wear resistance, elasticity and high reproducibility after deformation or loading. It's biocompatible and certified in accordance with ISO 10993.

Mechanical Properties

Tensile strength	4.9 N/mm ²
Elongation at break	> 1000%
Hardness	20

Thermal Properties

Temperature range	-30 -180°C
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Physical Properties

Density	1.05 g/cm ³
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Reference

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True Silicone (A35)

Alternative Designations

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Key Features

High wear resistance • Elasticity • High resolution

Description

True silicone 3D printing is similar to liquid injection moulding but it doesn't require moulds which makes it faster and cheaper than injection moulding. It is 100% made from silicone (no additional resins or acrylates). This material has a high resolution, an excellent surface finish, and is resistant to acids, bases and non-polar solvents. It has high wear resistance, elasticity and high reproducibility after deformation or loading. It's biocompatible and certified in accordance with ISO 10993.

Mechanical Properties

Tensile strength	5.5 N/mm ²
Elongation at break	650%
Hardness	35

Thermal Properties

Temperature range	-30 -180°C
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Physical Properties

Density	1.08 g/cm ³
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Reference

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True Silicone (A60)

Alternative Designations

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Key Features

High wear resistance • Elasticity • High resolution

Description

True silicone 3D printing is similar to liquid injection moulding but it doesn't require moulds which makes it faster and cheaper than injection moulding. It is 100% made from silicone (no additional resins or acrylates). This material has a high resolution, an excellent surface finish, and is resistant to acids, bases and non-polar solvents. It has high wear resistance, elasticity and high reproducibility after deformation or loading. It's biocompatible and certified in accordance with ISO 10993.

Mechanical Properties

Tensile strength	8.5 N/mm ²
Elongation at break	360%
Hardness	60

Thermal Properties

Temperature range	-30 -180°C
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Physical Properties

Density	1.13 g/cm ³
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Reference

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