Data Sheet

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

Physical Properties

Density	1.11 g/cm^3

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.

Data Sheet

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

Physical Properties

Density	1.05 g/cm^3

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.

Data Sheet

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

Physical Properties

Density	1.08 g/cm^3

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.

Data Sheet

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

Physical Properties

Density	1.13 g/cm^3

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.