

SiMPore Translucent PDMS Sheets

GASKET Product Series

Product Highlight

SiMPore Translucent PDMS sheets are cut from centrifugally cast, platinum-cured silicone. Our PDMS sheets exhibit glass-like transparency and exceptional compliance as a 40 durometer, Shore A material.

Available in five thickness ranges and in either double-lined format (250µm to 800µm) or single liner (1.6mm, 3.2 mm) formats to protect the surface during handling and fabrication.



Mechanical Data

SiMPore's Translucent PDMS sheets are manufactured and converted to the dimensions and tolerances specified in the tables below. Custom dimensions and thicknesses are available on request.

Standard Thickness & Tolerances

Part Number	Thickness (mm)	Tolerance (mm)
GASKET-250	0.254	± 0.051
GASKET-500	0.508	± 0.076
GASKET-800	0.787	± 0.102
GASKET-1600	1.600	± 0.152
GASKET-3200	3.175	± 0.203

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TDS-0001 : Translucent PDMS Sheets

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Version 1.0

Standard Dimensions & Tolerances

Part Number	Width (mm)	Length (mm)	Tolerance (mm)
GASKET-[250 -3200]	175	225	± 10.0

Material Properties

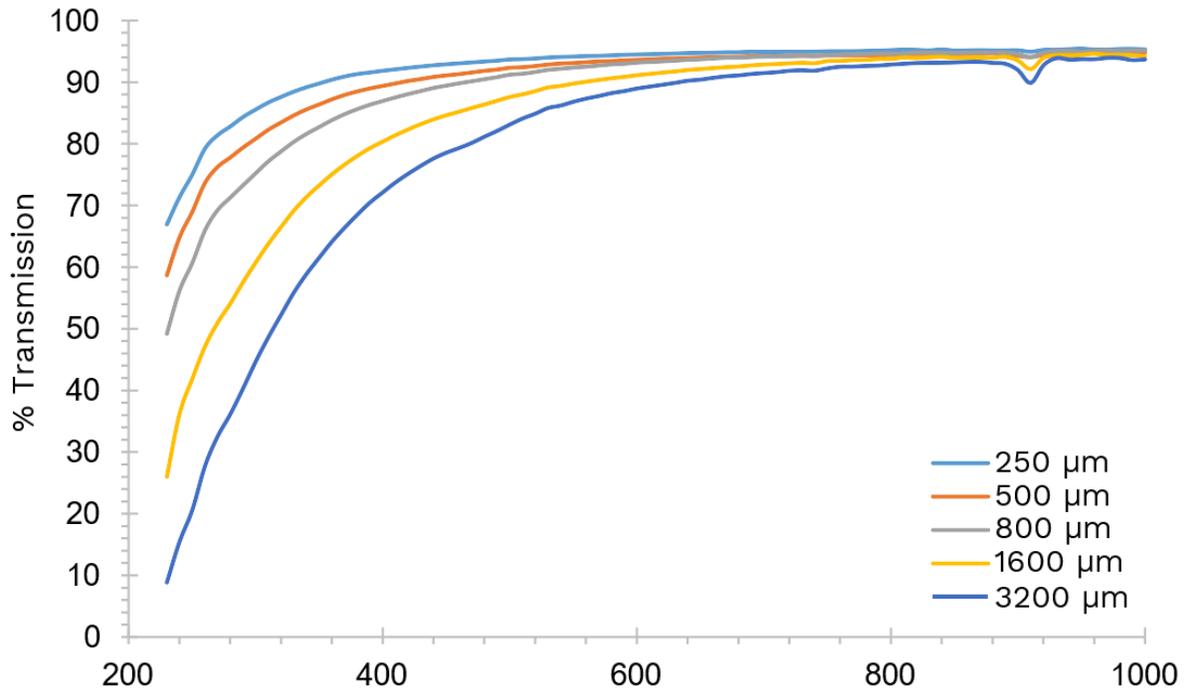
SiMPore's PDMS sheets conform to the following material specifications. Applicable test methods are provided for reference where applicable.

Standard PDMS Sheet Material Properties

Property	Test Method	Typical Value	Specification
Color	Visual Inspection	Transparent	-
Thickness (mm)	Vendor ¹	0.248-3.2	-
Density (g/cm³)	Vendor ¹	1.07	-
Durometer, Shore A	ASTM D2240 ¹	41	40 ± 5
Compression Set (%)	ASTM D395 ¹	<35	-
Tensile Strength (mPa)	ASTM D412 ¹	7.17	> 4.8
Elongation (%)	ASTM D412 ¹	325	> 200
Tear Resistance (PPI)	ASTM D624 ¹	112	> 70
Temperature Range (°C)	Vendor ¹	-55 to +220	-
Liner Material	Vendor ¹	PET	-

¹Test methods and results are provided by the OEM manufacturer.

Transmission Properties of Select PDMS Sheets



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