

SiMPore Ultra-Thin Translucent PDMS Sheets

GASKET-UT Product Series

Product Highlight

SiMPore Ultra-Thin Translucent PDMS sheets are cut from centrifugally cast, platinum-cured silicone. Our PDMS sheets exhibit glass-like transparency and exceptional compliance as a super-soft and flexible 27 durometer, Shore A material.

Available in five thickness ranging from 0.20mm to 0.40mm, the sheets arrive in a double-lined format for ease of handling and to protect the surface during handling and fabrication.



Mechanical Data

SiMPore's Ultra-Thin 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	Width (mm)	Tolerance (mm)
GASKET-UT-20	0.020	± 0.002
GASKET-UT-50	0.050	± 0.003
GASKET-UT-100	0.100	± 0.005
GASKET-UT-200	0.200	± 0.005
GASKET-UT-400	0.400	± 0.010

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TDS-0002 : Ultra-Thin Translucent PDMS Sheets

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Version 1.0

Standard Dimensions & Tolerances

Part Number	Width (mm)	Length (mm)	Tolerance (mm)
GASKET-UT-[20-400]	125	125	± 5.0

Material Properties

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

Ultra-Thin PDMS Sheet Material Properties

Property	Test Method	Typical Value	Specification
Color	Visual Inspection	Transparent	-
Thickness (mm)	Vendor ¹	0.020 - 0.400	≤ 5%
Gas Permeability (CO₂/N₂)	DIN 53536 ¹	10:1	-
Durometer, Shore A	ISO 48-4 ¹	27	27 ± 5
Compression Set (%)	ISO 815-1, Type B - A ¹	<5	≤5
Tensile Strength (N/mm²)	ISO 37-1 ¹	6.0	> 4.8
Elongation (%)	ISO 37-1 ¹	450	> 200
Tear Strength (N/mm)	ISO 10993 ¹	10	-
Temperature Range (°C)	Vendor ¹	-40 to +180	-
Liner Materials	Vendor ¹	Top: PET Bottom: PE	-

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

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