



tesa[®] 58685

Product Information

400 µm single-sided radar absorber tape

Product Description

tesa[®] 58685 is a 400µm single-sided radio frequency absorber tape. The acrylic based absorber tape provides excellent absorption performance to high frequency radio signal which ranged in 76 ~ 81 GHz. Easily converting property ensures flexibility of customer antenna layout scheme. Excellent bonding performance ensures good position and stability in mobility working conditions.

Sustainable Aspects



For more information: <https://www.tesa.com/product-sustainability>

Product Features

Excellent product design brings customer good absorption performance, and bringing customer very great adhesion performance for its positioning.

- Excellent absorption performance for 76 ~ 81GHz radar application
- Great bonding performance keeps good connection and position on substrate

Application Fields

Single-sided radar absorber tape could be applied in automotive radar system for absorbing reflected interference signals for more accurate detection signal receiving.

Suitable for radio frequency 76 ~ 81 GHz, reflection loss no higher than -12dB with tape laminated onto waveguide plate.

Extraordinary peel adhesion meets automotive dynamic motion requirement for keeping it position.

Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

Product Construction

- | | | | |
|--------------------|-----------------|------------------|----------------------|
| • Backing | PE coated paper | • Color | black |
| • Type of adhesive | acrylic | • Color of liner | white with tesa logo |

Product Assortment

- | | | | |
|---------------------|------------------|-------------------------|-----------------|
| • Available colors | black | • Available liners | PE-coated paper |
| • Available formats | LOG ROLL TRIMMED | • Available thicknesses | 400 |

For latest information on this product please visit <http://l.tesa.com/?ip=58685>



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Product Information

Properties/Performance Values

• Breakdown voltage	10 KV	• Release of liner	easy
• Density	1.114 g/cm ³	• Surface resistance x-y-direction (adhesive)	34000 Ohm / square
• Dielectric constant	5.75	• Tan D	0.7
• Flame retardancy	V-2	• Temperature resistance (-40°C)	very good
• Hardness - Shore 00	80 STK	• Temperature resistance (125°C)	very good

Adhesion to Values

- Steel (20min @ RT, 90°) 5.6 N/cm

Storage Conditions

Storage Conditions

Temperature : from +5°C to +30°C

Relative humidity : from 10% to 90%

Precautions : protect for direct sun light, do not store outside

Other storage advices : avoid mechanical impacts and short overheating

Additional Information

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Disclaimer

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