



RESTAN (reflection standard)

REFLECTANCE



The white reference RESTAN based on PTFE (Polytetrafluoroethylene) diffusely reflects more than 98% of light in the area between 300nm and 1700nm. This means the reflection level is higher and more uniform especially at longer wavelength than the reflectance of barium sulfate (BaSO₄).

The material is long-term stable, temperature consistent, workable, available and has a good price/performance ratio.

We offer RESTAN as a reflectance standard in a circular metal case with 50mm diameter which is suitable for all spectroscopic and densitometric applications. Individual calibration is available on request.

RESTAN is also available as bare plates in various standard sizes:

50 x 50 x 10 mm (width, length, thickness)

100 x 100 x 10 mm

280 x 360 x 10 mm

Custom sizes are available on request.

Specifications:

Density: depends on application

Temperature range: -200 °C min. +260 °C max.

Hardness: 30-40 Shore D

Water solubility*: insoluble

Resistance to chemicals: high

Flammability: not inflammable UL94 V-0

Reflectance: typ. 98% between 300 - 1.700nm

RESTAN is a volume reflector that requires a thickness of 8mm and more to achieve its maximum reflectance.



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Material maintenance:

The material attracts dust. It should therefore be stored in a box or case whenever it is not used. In case the surface should get dirty the material can carefully be smoothed using fine white sandpaper. This should not be done too often to ensure enough material volume.

The spectral reflection of RESTAN:

