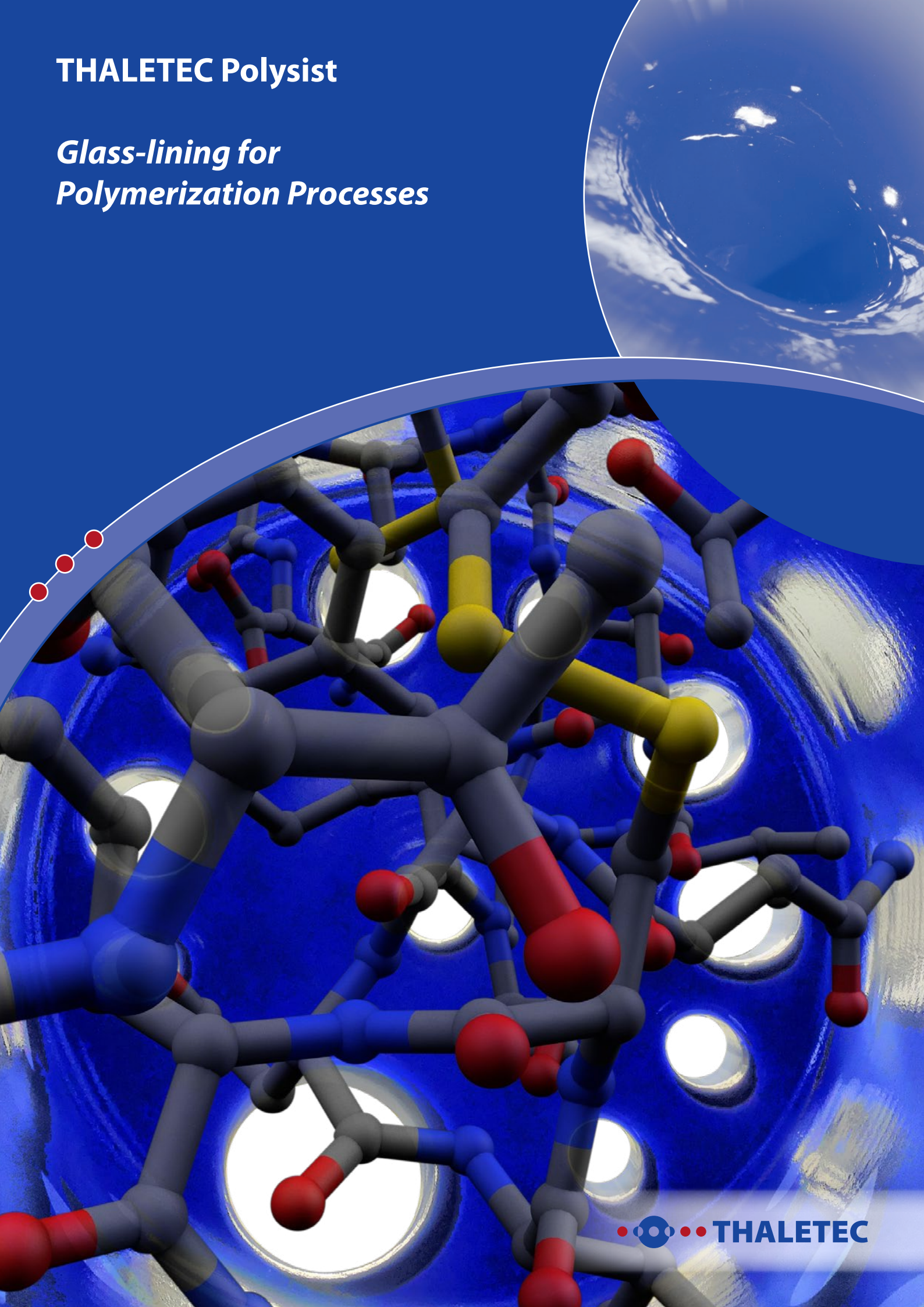
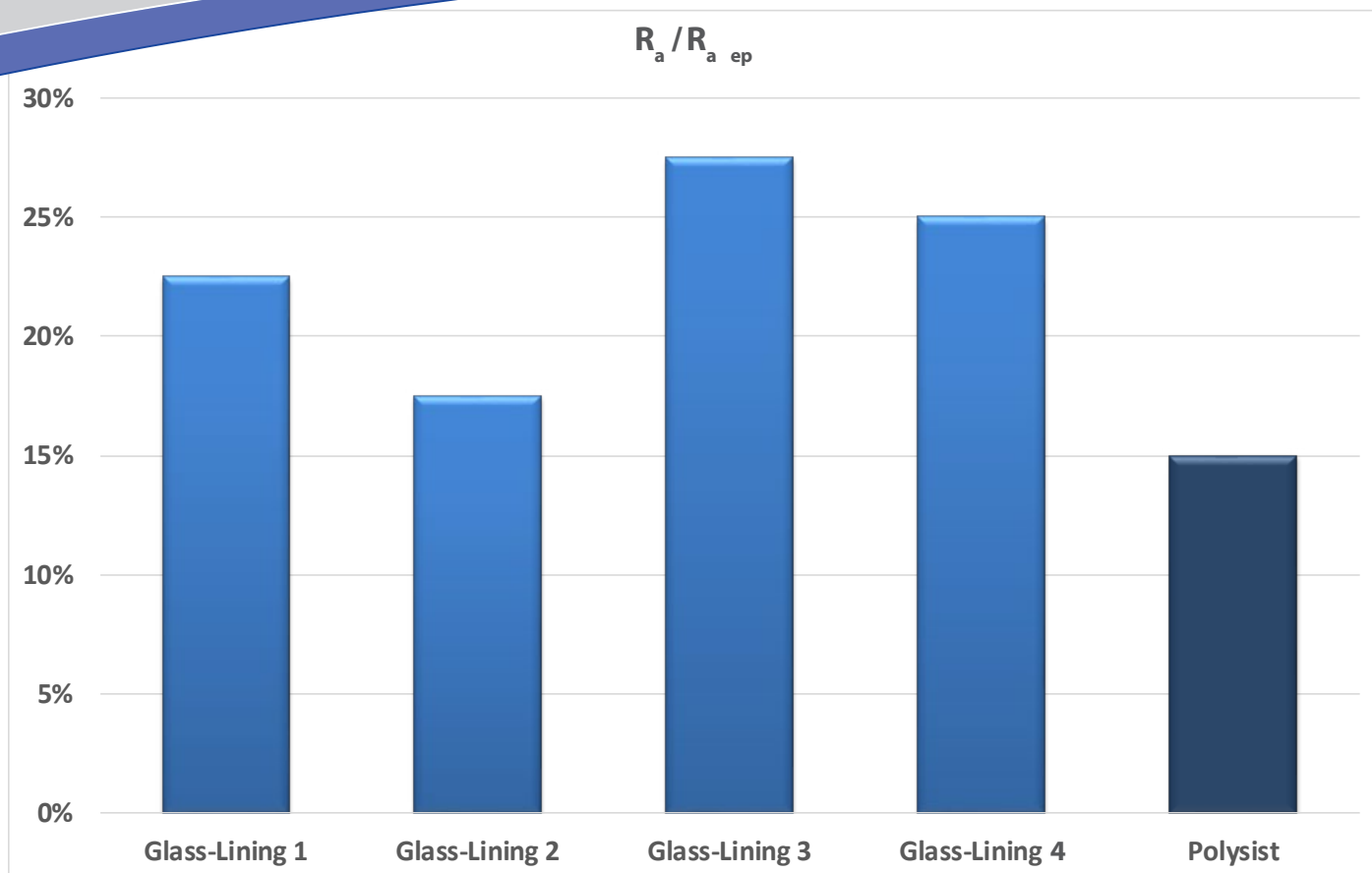


THALETEC Polysist

***Glass-lining for
Polymerization Processes***





1: Roughness R_a of various technical enamels from THALETEC compared to electro polished stainless steel ($R_a\ 0,4$)

Description:

THALETEC Polysist is a new glasslining that has been specially developed for polymerization processes. Compared to other technical enamels and especially electro polished surfaces THALETEC Polysist has a significantly **smoother and anti-adhesive surface**. THALETEC Polysist also improves the **heat transfer**, which is important for the dissipation of reaction heat, compared to other chemical enamels.

The special properties of Polysist are achieved by additives to the enamel raw materials used.


Compared to electro polished metallic surfaces with R_a values of 0.4, the roughness of THALETEC Polysist is **consistently only 15% of this value**.

THALETEC Polysist can be used for all relevant glass-lined and product-wetted components (e.g. vessels, agitators, baffles, etc.).

Features:

- High-gloss smooth surface with very good cleaning properties
- Surface with anti-adhesive effect on polymers; suitability can be tested in individual cases
- Optimum heat transfer due to the narrowly tolerated layer thickness of the enamel (up to 40% better than other enamel coatings)
- High chemical resistance for common polymerization processes. Suitability can be checked in individual cases
- Color: dark blue

Advantages:

- Surfaces remain free from caking and adhesion
- No catalytic effect on the reactions in the reactor
- No roughening effect on the glass-lined surface
- No surface imperfections as can occur with stainless steel apparatus (weld pores, overlaps, uneven grinding pattern, pores, etc.)
- Surface is easy to clean
- Fast reaction control due to improved heat transfer
- Improvement of heat transfer additionally possible by using THALETEC PowerBaffles (Flyer K018 )
- High-voltage test of the finished enamel up to 15 KV pore-free
- Higher plant productivity through reduced downtime and shorter process times

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