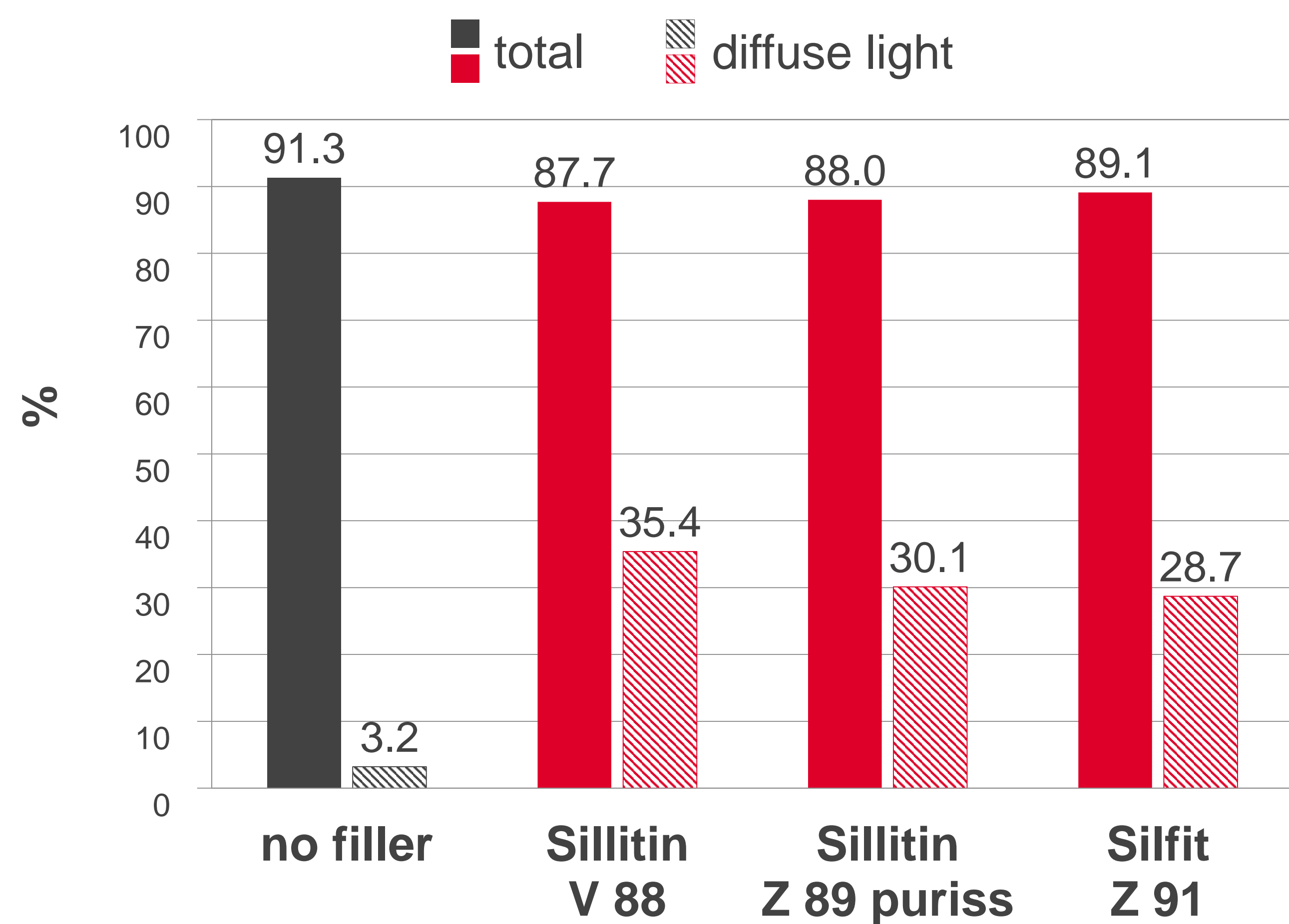


NEUBURG SILICEOUS EARTH IN PE/EVA GREENHOUSE FILMS AS AN IR ABSORBER

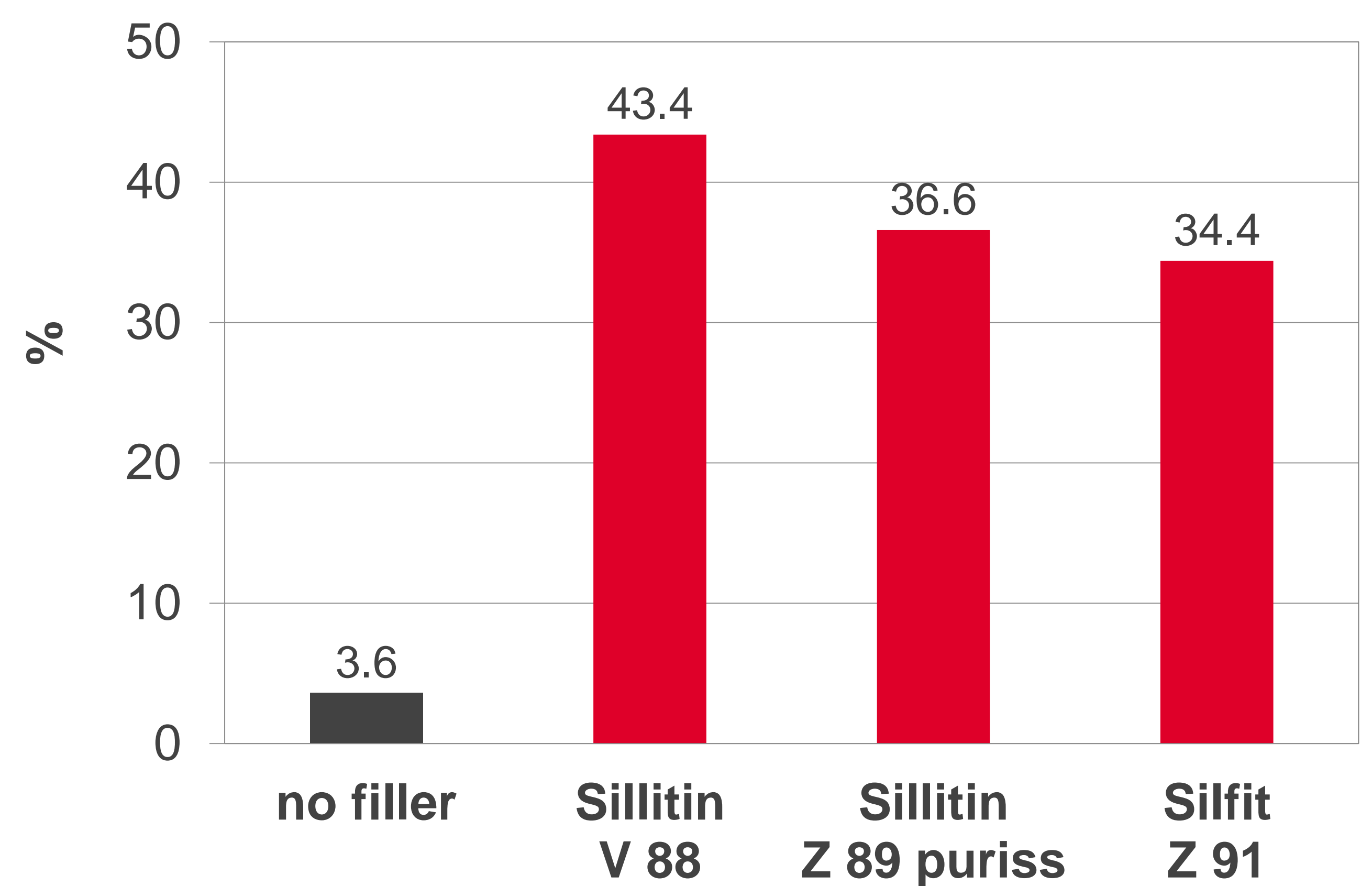
Blown mono film, 100 µm, 7.5 wt% filler content

RESULTS

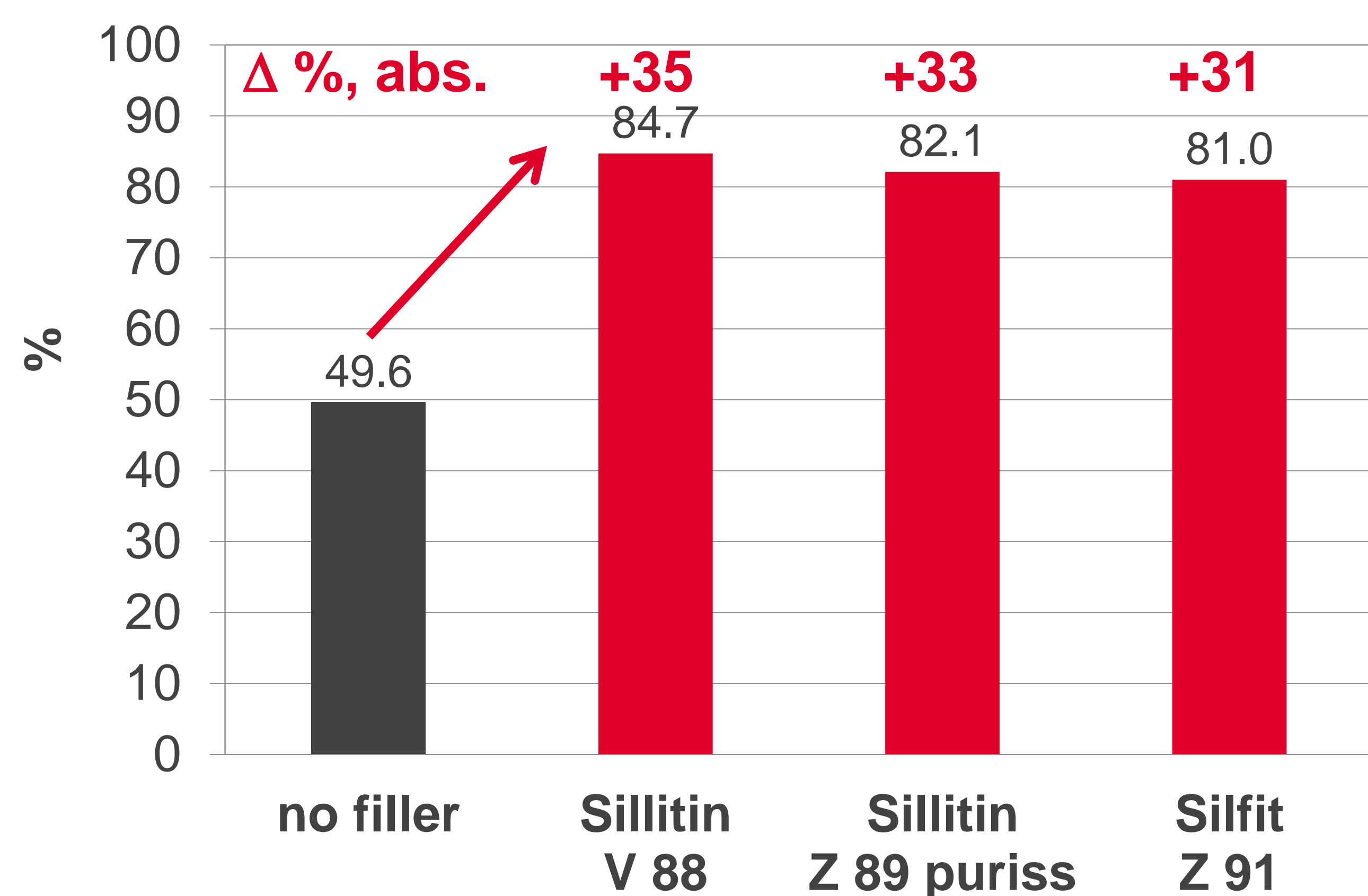
Transmission PAR Range (400-700 nm)



Haze



IR Efficiency (FT-IR 1430-770 cm⁻¹)



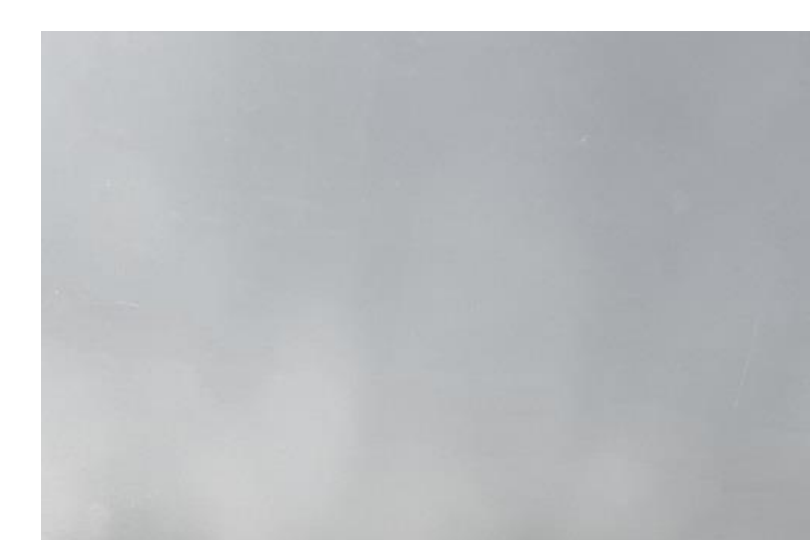
Optical Impression LDPE Films
See-through photo of a tree



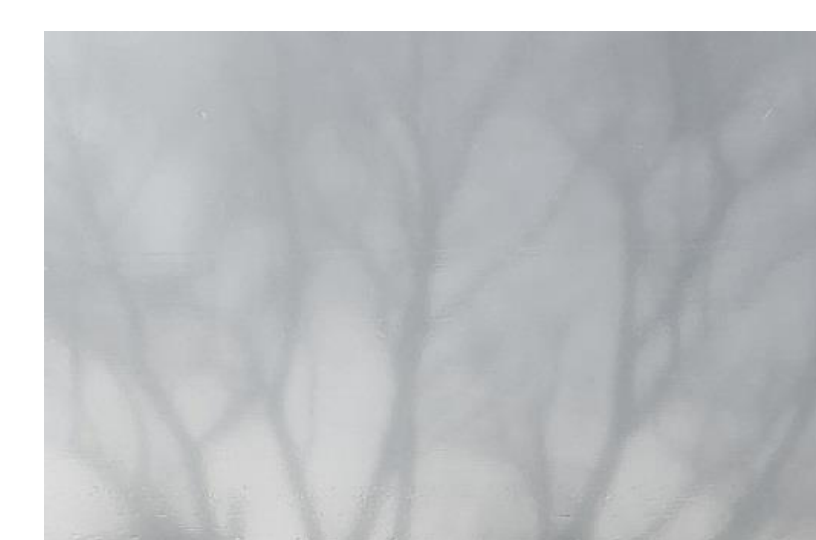
without film



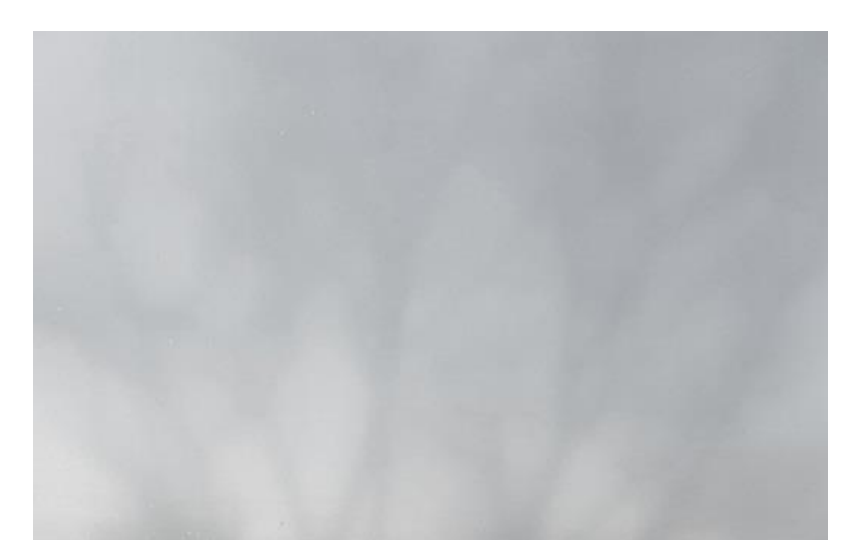
pure PE/EVA film



Sillitin V 88



Sillitin Z 89 puriss



Silfit Z 91

SUMMARY

NEUBURG SILICEOUS EARTH is suitable as an IR absorber in greenhouse films and exhibits the following effects in PE/EVA films (compared to the pure film):

- ✓ Stronger light scattering with almost unchanged total transmission in the PAR range
- ✓ Significantly higher IR efficiency, thereby reducing the thermal loss versus pure film

Sillitin V 88

strongest light scattering
highest IR barrier

Sillitin Z 89 puriss

good light scattering
good IR barrier
low optical haze

Silfit Z 91

good light scattering
good IR barrier
higher color neutrality

Other grades or adapted loading offer the potential for further optimization, e. g. additionally enhanced IR efficiency or extended life / improved weatherability of the film. Products on request available.

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