Application Note
V-214

HAAKE CaBER 1 – binary polymer mixtures

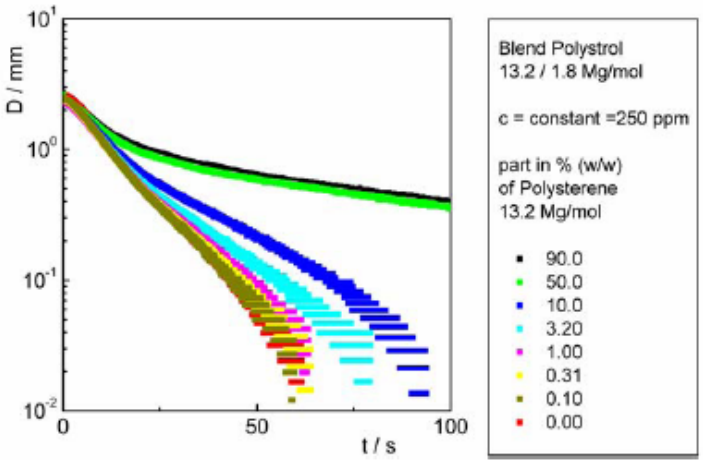
Polystyrene, blends of standards, M_w = 1.8 Mio g/mol + M_w = 13 Mio g/mol

Rheology Application Notes

CaBER test result

At a constant concentration of 250 ppm in Boger fluids binary mixtures can be differentiated in extensional flow.

In shear flow differences between in mixing ratio cannot be detected.

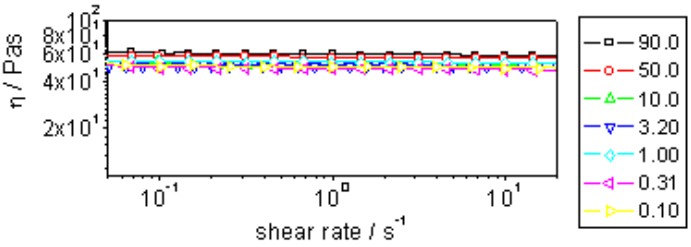


Conclusion

The influence of molecular weight of polymers is more sensitive in the CaBER measurement.

Practical applications

Industrial processes where small changes in polymerization process or recipe may influence application behaviour.



References

Clasen/ University of Hamburg
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