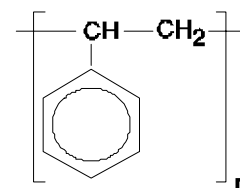


# Quality Certificate DIN

Polymer type: Poly(styrene)

Lot no.: ps21025di



Molar Mass Averages:

|  | GPC         | Light Scattering |
|--|-------------|------------------|
| <b>M<sub>p</sub></b>                   | 1 865 000 D |                  |
| <b>M<sub>n</sub></b>                   | 1.760 000 D |                  |
| <b>M<sub>w</sub></b>                   | 1 850 000 D | 1 750 000 D      |
| <b>D (M<sub>w</sub>/M<sub>n</sub>)</b> | 1.05        |                  |

All analysis run according to ISO EN 13885 and DIN 55672

## Conditions

GPC: sample concentration in eluent, filtered through 1µm PTFE membrane filter

> M<sub>p</sub> 800 000 [D] 0,3 g/l

> M<sub>p</sub> 2000 [D] 1 g/l

< M<sub>p</sub> 2000 [D] 1,5 – 2,0 g/l

injection volume: 20 µl

eluent: THF @ 25 °C, 0.5 ml/min

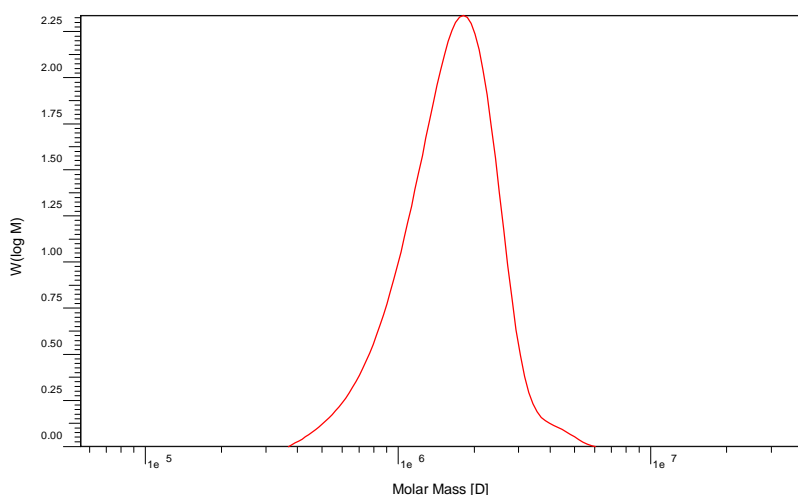
columns: PSS SDV 10<sup>8</sup>Å 20µm, ID 8x300mm

detection: UV @ 260 nm and RI

calibration: 12 PSS Poly(styrene) standards

Light Scattering with Wyatt Tech DAWN-F: run on-line in Toluene @ 25 C using 18 angles and static in toluene calculations based on Toluene Rayleigh Ratio  $R_{\theta} = 1.404 \cdot 10^{-5} \text{ cm}^{-1}$  at 633 nm.  
 $dn/dc = 0.115 \text{ ml/g}$  at 488 nm

## Molar Mass Distribution (GPC)



## Note

M<sub>w</sub>: Weight Average Molecular Weight

M<sub>n</sub>: Number Average Molecular Weight

M<sub>p</sub>: Molar Mass at the Peak Maximum

D: Polydispersity Index

Manufacture and control according to PSS method of analysis

Dr. T. Hofe  
production director