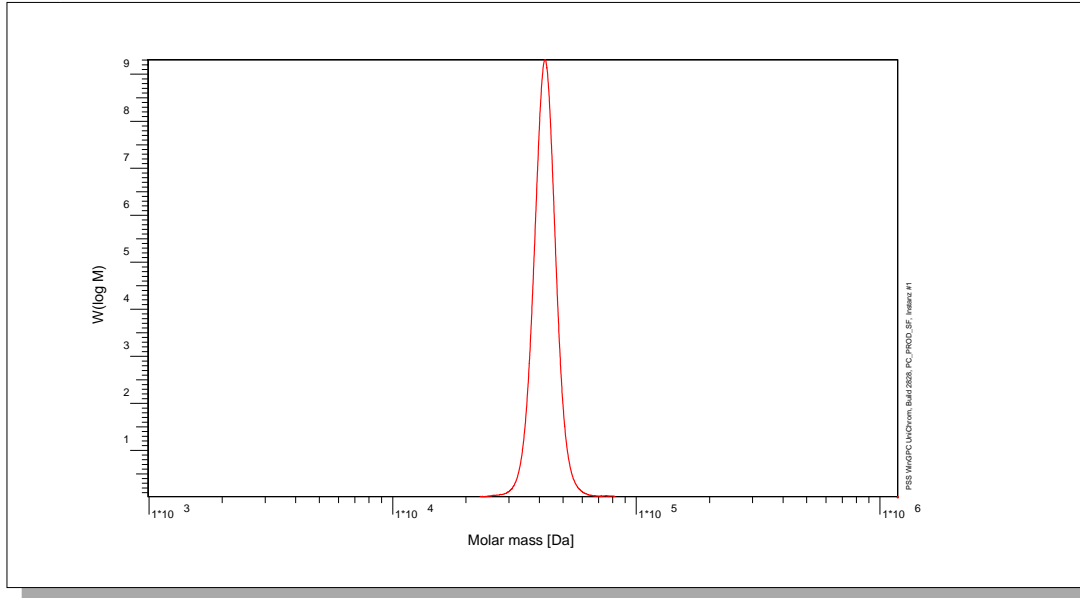


# Certificate of Analysis

Polymer type: Poly(isoprene-1.4)  
 Part No: PSS-pio47k  
 Lot No: pio040713

## Molar Mass Distribution



## GPC/SEC - Conditions

Sample concentration	1,00 g/l	Inject volume	20 µl
Solvent	Tetrahydrofuran	Flow rate	1,00 ml/min
Precolumn [8 x 50 mm]	PSS SDV 5µm	Temperature	23 °C
Columns [analytical, each 8 x 300 mm]	PSS SDV 5µm 10e3Å / 10e5Å / 10e6Å		
Data Acquisition Software	PSS WinGPC	Operator	S.Fugmann

## GPC/SEC - Results

Detector	Mw [Da]	Mn [Da]	Mp [Da]	PDI [Mw/Mn]
Agilent RID	42500	42000	42300	1,01

## Additional Methods - Results

Method	Mw [Da]
Light Scattering, on-line (SLD7x00)	38800

Mw = Weight average molecular weight  
 Mn = Number average molecular weight  
 Mp = Molar mass at the peak maximum  
 PDI = Polydispersity Index

Light Scattering run on-line, based on Toluene Rayleigh Ratio  $R = 1.404 \cdot 10^{-5} \text{ cm}^{-1}$  at 633 nm.  
 System and instrument validation based on Certified Reference Materials Poly(styrene) Lot No: ERM-FA001.

Sample concentration 4.3737 g/L  
 Inject volume 100µL  
 Sample dn/dc 0.111mL/g

### Microstructure of the polymer:

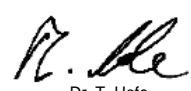
Poly(isoprene-3.4) 5%  
 Poly(isoprene-1.4) 95%

**Storage:** Store the tightly recapped polymer standard in a dry, dark, cool area; e.g. a refrigerator (4 °C).

**Date of expiry:** yyyy/mm/dd (See also product label.)

**Date of approval:** yyyy/mm/dd

Polymer stabilized with 0.1% BHT.

Manufacture and control according to PSS method of analysis  
  
 Dr. T. Hofe  
 production director

