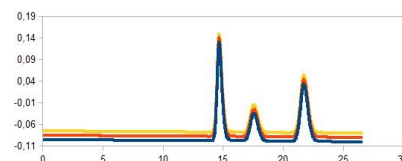
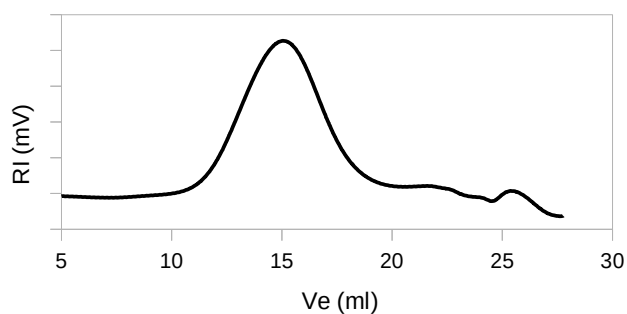


GPC / SEC / HPLC Columns

Made by AppliChrom GmbH



AppliChrom HFIP-Phil-P



Polyamide 6,6 (PA6-6)

AppliChrom® HFIP-Phil-P

Special GPC / SEC columns for the GPC analysis of HFIP-soluble polymers.

For GPC / SEC analyzes from *)

Polyesters (polybutylene terephthalate / PBT / CAS 24968-12-5,
polyethylene terephthalate / PET / CAS 25038-59-9, polylactide
PLA / CAS 26100-51-6)

Polyamide 6 / PA6 / polycaprolactam / CAS 25038-54-4, polyamide 6-6 /
PA6-6 / polyhexamethylene adipamide / CAS131-17-2, polyamide 6-10 /
PA6-10 / poly(hexamethylene sebacamide) / PA 6-10, CAS 9011-52-3

Other (paraformaldehyde / polyoxymethylene / POM / polyacetal / CAS
30525-89-4 polyethylenimine / PEI / poly (iminoethylene / polyaziridine /
CAS 9002-98-6)

HFIP GPC / SEC calibration versus

- PMMA / polymethylmethacrylate / CAS 901-14-7

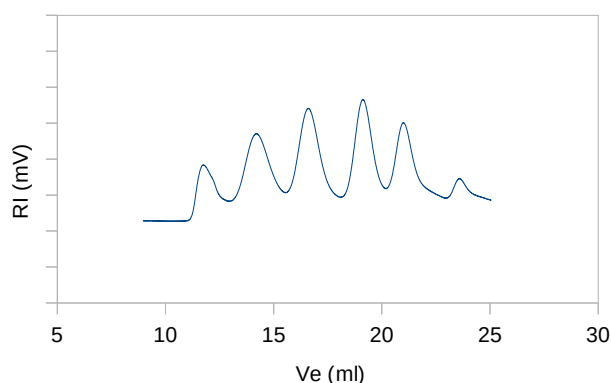
HFIP Accessories:

5mM CF₃COOK or 0.075M CF₃COONa are added to the eluent HFIP
for the suppression of electrostatic interactions and for artefact-free GPC.

Benefits AppliChrom HFIP-Phil-P GPC columns series over standard columns

- very large pore volume for high GPC resolution
- high GPC resolution for oligomers / condensates of 100-70,000Da
- high resolution GPC separation for the range 100-800.000Da
- large areas with high linearity calibratable areas without porosity artifacts
- low bleed
- standard columns also used for GPC-LS and GPC viscosity

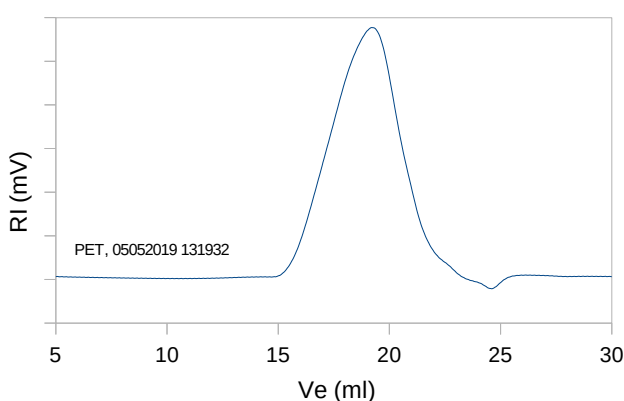
*) GPC / SEC of polylactide (PLA) - see also AppliChrom StyDiViBe in CHCl₃, for polyethylenimine (PEI)
- see also: AppliChrom CatPhil-P in H₂O



Analyte: **Polymethylmethacrylat**
(PMMA), CAS 9011-14-7, CAS131-17-2
M = 901.000, 96.760, 32.500, 3196, 540Da

Column: AppliChrom HFIP-Phil-P-350

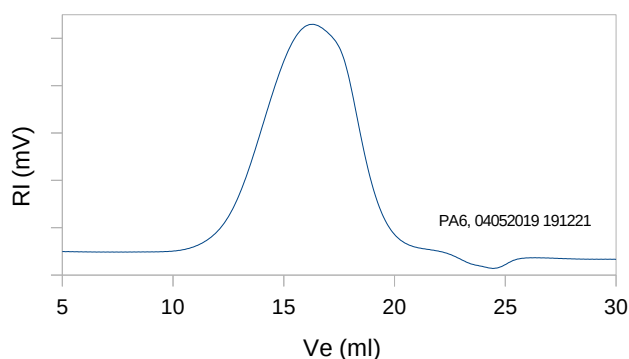
Dimension: 2x 300mm x 8mm
Mobil Phase: HFIP, 5mM CF₃COONa
Flow: 0.5ml/min
Temperature: 40°C
Detection: RI
Injection: 100µl sample



Analyte: **Polyethylenterephthalat**
(PET), CAS 25038-59-9

Column: AppliChrom HFIP-Phil-P-350

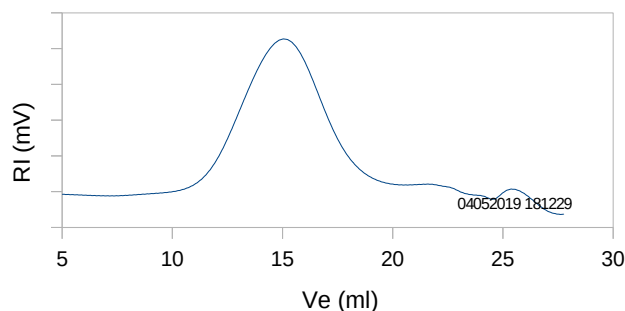
Dimension: 2x 300mm x 8mm
Mobil Phase: HFIP, 5mM CF₃COONa
Flow: 0.5ml/min
Temperature: 40°C
Detection: RI
Injection: 100µl sample



Analyte: **Polyethylenterephthalat**
(PET), CAS 25038-59-9

Column: AppliChrom HFIP-Phil-P-350

Dimension: 2x 300mm x 8mm
Mobil Phase: HFIP, 5mM CF₃COONa
Flow: 0.5ml/min
Temperature: 40°C
Detection: RI
Injection: 100µl sample



Analyte: **Polyamide 6,6 (PA6-6),**
CAS131-17-2

Column: AppliChrom HFIP-Phil-P-350

Dimension: 2x 300mm x 8mm
Mobil Phase: HFIP, 5mM CF₃COOK
Flow: 0.5ml/min
Temperature: 40°C
Detection: RI
Injection: 100µl sample; 1g/l

Good for many HFIP soluble polymers

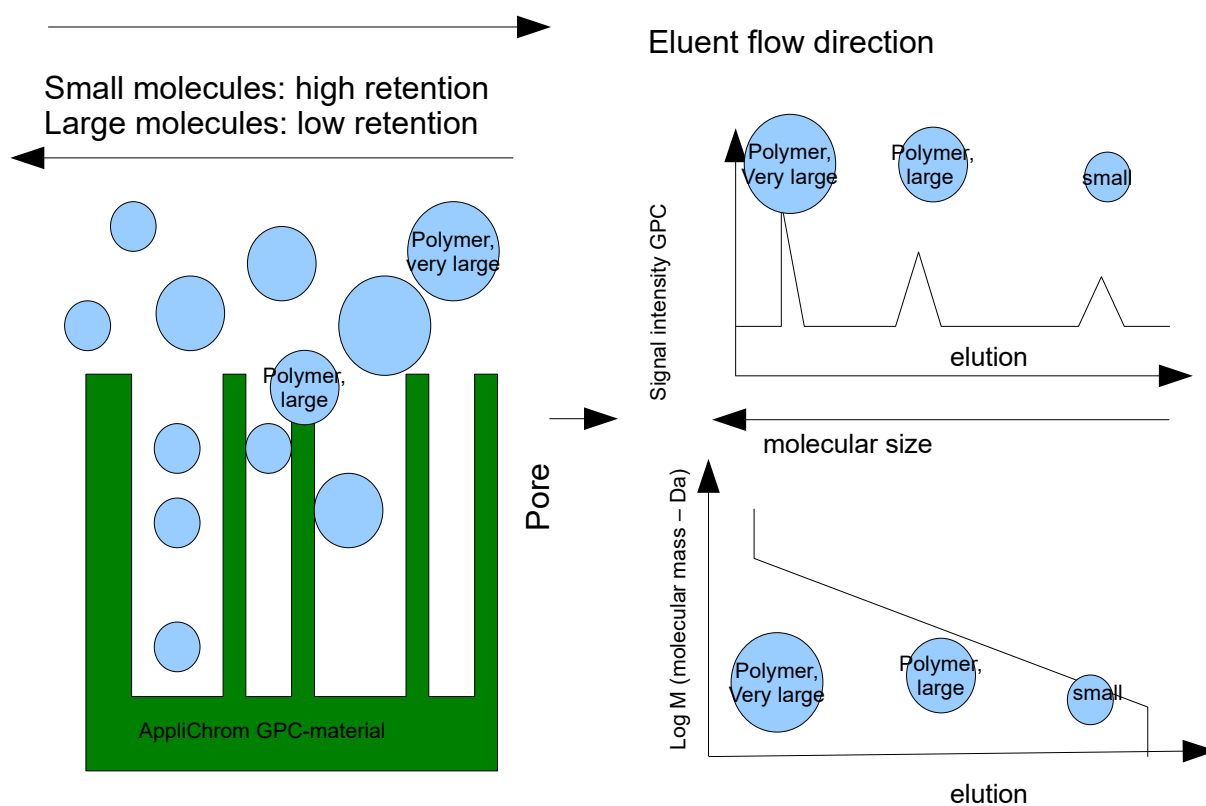
AppliChrom HFIP-Phil-P

Catalog #	Description	Dimension	Separation Range
SAHFIP1002508 SAHFIP1003008 SAHFIP100508 SAHFIP100308	AppliChrom HFIP-Phil-P-100	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	100Da-2 500Da
SAHFIP3502508 SAHFIP3503008 SAHFIP350508 SAHFIP350308	AppliChrom HFIP-Phil-P-350	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	up to 1 000 000Da
SAHFIP5002508 SAHFIP5003008 SAHFIP500508 SAHFIP00308	AppliChrom HFIP-Phil-P-500	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	10 000Da- ~50 000 000Da

Principle of GPC/SEC

In detail:

Small polymers intrude to nearly all pores
Medium sized polymers intrude only to some pores
Very large polymers are totally excluded from the pores
=> separation of polymers according to molecular size



Inquiry Form For Forwarding to AppliChrom GmbH

To place an order please fill in this form and send it by mail or fax to:

AppliChrom GmbH
Germendorfer Allee 20
D-16515 Oranienburg
Germany

Telephone: +49 (0)3301 579293
Fax: +49 (0)3301 209879
Email: info@applichrom.co
Web: www.applichrom.com

Catalog	Description	Dimension

bulk quantities on request

address

name

company / institute

address

country

telephone number

e-mail

VAT-number

comment

AppliChrom GmbH

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AppliChrom
Excellent results are our aim



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