

Applications



Diagnostic Pipette Tips



*in Collaboration with ChipShop GmbH

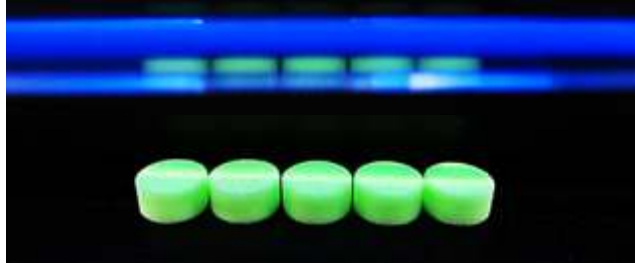
Microchip for Immunoassays & Microscopy*



Release Systems for Cosmetics & Pharmaceuticals

Development of Customized Applications

Application
Stained & Fluorescent Filters



Development of Customized Applications

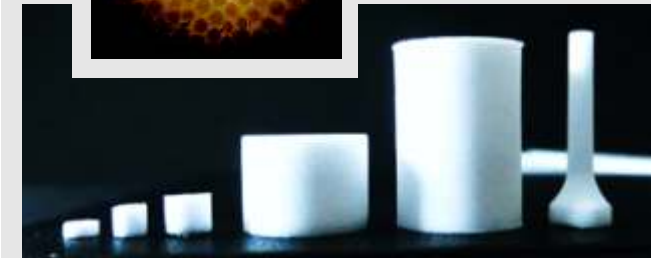
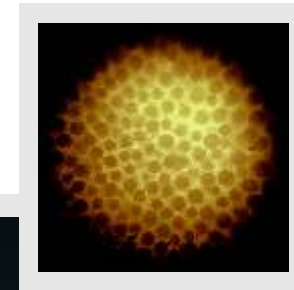
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Forschungszentrum
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und Biotechnologie

Smart Porous Plastics



for High End Applications in
Biotechnology &
Medical Device Industry



Microporous Basic Material

Polyethylene (PE)
Polymethylmethacrylate (PMMA)

Nanoporous Additives

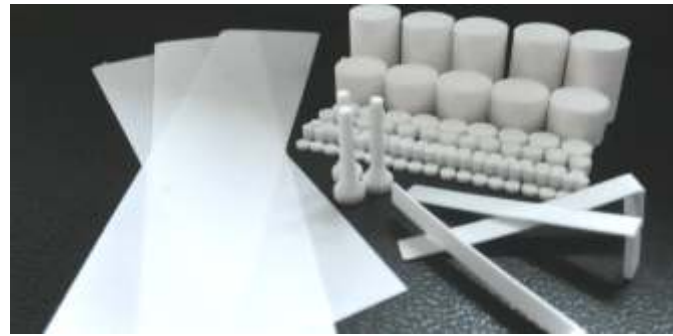
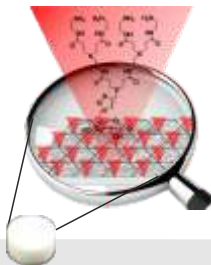
Silica
Polymethylmethacrylate (PMMA)
Porous Glas

Chemical Functionalization of Surface

Amino	Permanent Hydrophilic
Carboxyl	Anion Exchange
Hydroxyl	Cation Exchange
Epoxy	

Biological Ligands

Antibodies
Streptavidin
Lectins
Oligosaccharides
Nucleotides



Geometry & Size

Three Dimensional Filter
Membranes & Filter Plates

Standard Dimensions

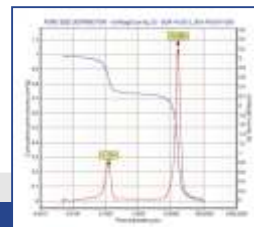
d (mm)	h (mm)							
	2,0	2,7	3,0	1,4	1,8	1,9	2,0	2,1
2,2	2,7	3,0						
2,5	1,0	1,2						
3,5	2,6	3,0						
5,0	1,9							
5,1	2,7	3,0						
10,1	14,7	7,5						

Other Dimensions available

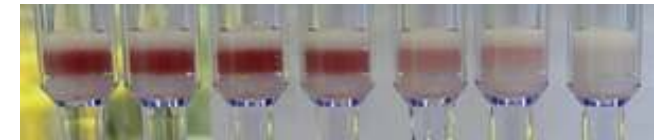
Porosity & Internal Surface

Microporous
Pores: 4...100 microns
Porosity: 30...70%
Surface: 0.1...1.0 m²/gram

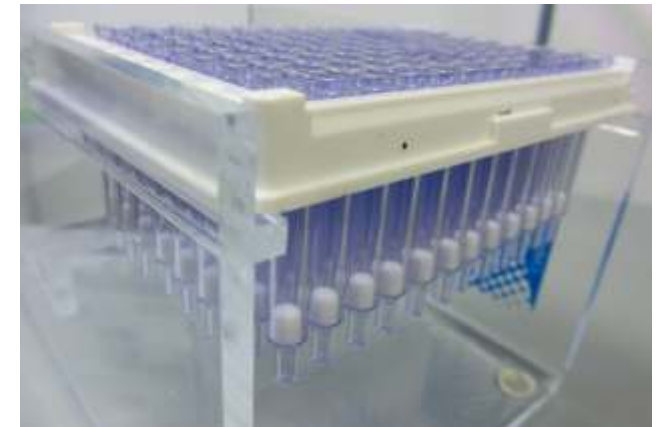
Micro/Nanoporous
Surface up to 35 m²/gram



Applications



Lateral Flow & 3D-Immunoassays



Sample Extraction & Immunoprecipitation



Monolithic Chromatography