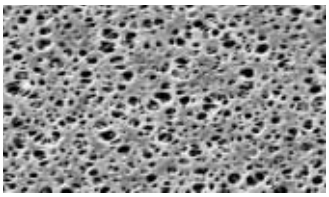
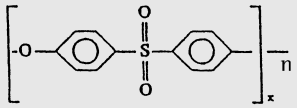
Polyethersulfone Membrane Filters, Type 154, for the Filtration of Aqueous and Aggressive Solutions





The new polyethersulfone membrane filters have excellent flow speeds and, connected to it, a high filterable volume.

Biologic and pharmaceutic solutions can be filtered, in the wide pH-range of pH 2-12, because of their low protein adsorption.

Furthermore, the membranes are very well suitable for samples of the environmental sector.

The filters with 0.1 µm are used for the ultracleaning of solutions, e.g. in case of nephelometry.

Typical perfomance for polyethersulfone membrane filters

Adsorption	10 µg/cm² for IgG, 5 µm/cm² for BSA, 1.9 µg/cm² for Insulin
Bubble point acc. DIN 58355	0.1 µm with Isopropanol/water (60/40) >2.1 bar (30.45 psi) 0.2 µm = 3.2 bar (320 kPa, 46 psi) 0.45 µm = 2.3 bar (33.4 psi)
Chemical compatibility	Resistant to some solutions and aggressive, aqueous solutions, pH 1-13.
Extractables with water	Less than 0.2%
Flow rate for water acc. DIN 58355	Average value per cm² area at ΔP = 1 bar (100 kPa, 14.5 psi): 0.1 µm – >7 ml/min. 0.2 µm – >28 ml/min. 0.45 µm – >32 ml/min.
Material	Polyethersulfone (non ionic)
Sterilization	By autoclaving at 121°C or 134°C, gamma radiation or with ethylenoxide.
Sterilizing filtration	Filters with 0.2 µm pore sizes have been validated with the Bacteria Challenge Test.
Thickness acc. DIN 53105	150 µm

Order numbers for polyethersulfone membrane filters, type 154

25 mm diameter	15458-025 N	0.1 µm, pack of 100
	15407-025 MIN	0.2 µm, pack of 100
	15406-025 N	0.45 µm, pack of 100
47 mm diameter	15458-047 N	0.1 µm, pack of 100
	15407-047 MIN	0.2 µm, pack of 100
	15406-047 N	0.45 µm, pack of 100
50 mm diameter	15458-050 N	0.1 µm, pack of 100
	15407-050 MIN	0.2 µm, pack of 100
	15406-050 N	0.45 µm, pack of 100

Special brochure for all membrane filters available. Order no. SM-1503-e