macroporous polymer

Glass or rubbery polymer that includes a large number of macropores ($50 \text{ nm}-1 \mu \text{m}$ in diameter) that persist when the polymer is immersed in solvents or in the dry state. Notes:

- 1. Macroporous polymers are often network polymers produced in bead form. However, linear polymers can also be prepared in the form of macroporous polymer beads.
- 2. Macroporous polymers swell only slightly in solvents.
- 3. Macroporous polymers are used, for example, as precursors for ion-exchange polymers, as adsorbents, as supports for catalysts or reagents, and as stationary phases in size-exclusion chromatography columns.
- 4. Porous polymers with pore diameters from *ca* 2 to 50 nm are called mesoporous polymers.

Source:

PAC, 2004, 76, 889 (Definitions of terms relating to reactions of polymers and to functional polymeric materials (IUPAC Recommendations 2003)) on page 900