

6265 DEAN PARKWAY ONTARIO NY 14519 WWW.SCIPOLY.COM

Technical Data Sheet

MATERIAL: Poly(ethylene oxide)

CATALOG NUMBER: 136B

CAS NUMBER: 25322-68-3

DESCRIPTION: Ethylene oxide homopolymer

FORMULA: $(C_2H_4O)_x$

TYPICAL PROPERTIES:

Appearance: Powder (98% thru 10 mesh)

Approx Mw: 200,000

Density: 1.21

Glass transition temp: -67° C

Refractive index: n_D^{20} 1.4539

Viscosity (5% solution): 75 cp (5% solution @ 25°C)

Melting point: 65°C

Solubility: Acetonitrile, benzene, chlorinated

hydrocarbons, DMF, MEK, methanol,

THF (hot), water

GENERAL INFORMATION: Poly(ethylene oxides) are soluble in an unusually broad range of

solvents. Films of these resins are inherently flexible, tough and resistant to most oils and greases. They find use in a broad range of applications including adhesives, lubricant formulations, paint strippers, paper coatings, flocculants, binders, thickening agents, and water-soluble

packaging.

STRUCTURE:

Technical information and data regarding the composition, properties or use of the products described herein is believed reliable. However, no representation or warranty is made with respect thereto except as made by Sp^2 in writing at time of sale. Sp^2 cannot assume responsibility for any patent liability which may arise from the use of any product in a process, manner or formula not designed by Sp^2 .