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## **Technical Data Sheet**

**MATERIAL:** Poly(ethylene oxide)

CATALOG NUMBER: 136D

**CAS NUMBER:** 25322-68-3

**DESCRIPTION:** Ethylene oxide homopolymer

FORMULA:  $(C_2H_4O)_x$ 

**TYPICAL PROPERTIES:** 

Appearance: Powder (98% thru 10 mesh)

Approx Mw: 300,000

Density: 1.21

Glass transition temp:  $-67^{\circ}$ C

Refractive index:  $n_D^{20}$  1.4539

Viscosity (5% solution): 750 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:** 

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