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Technical Data Sheet

MATERIAL: Poly(ethylene oxide)

CATALOG NUMBER: 136E

CAS NUMBER: 25322-68-3

DESCRIPTION: Ethylene oxide homopolymer

FORMULA: $(C_2H_4O)_x$

TYPICAL PROPERTIES:

Appearance: Powder (98% thru 10 mesh)

Approx Mw: 400,000Density: 1.21Glass transition temp: -67° C Refractive index: n_D^{20} 1.4539

Viscosity (5% solution): 2,750 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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