



Technical Data Sheet

| | |
|------------------------|----------------------------|
| MATERIAL: | Poly(ethylene oxide) |
| CATALOG NUMBER: | 136A |
| CAS NUMBER: | 25322-68-3 |
| DESCRIPTION: | Ethylene oxide homopolymer |
| FORMULA: | $(C_2H_4O)_x$ |

TYPICAL PROPERTIES:

| | |
|--------------------------|---|
| Appearance: | Powder (98% thru 10 mesh) |
| Approx Mw: | 100,000 |
| Density: | 1.21 |
| Glass transition temp: | -67°C |
| Refractive index: | n_D^{20} 1.4539 |
| Viscosity (5% solution): | 15 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: