



## Technical Data Sheet

<b>MATERIAL:</b>	Poly(ethylene oxide)
<b>CATALOG NUMBER:</b>	136E
<b>CAS NUMBER:</b>	25322-68-3
<b>DESCRIPTION:</b>	Ethylene oxide homopolymer
<b>FORMULA:</b>	$(C_2H_4O)_x$

**TYPICAL PROPERTIES:**

Appearance:	Powder (98% thru 10 mesh)
Approx Mw:	400,000
Density:	1.21
Glass 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:**