



## 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>	$(C_2H_4O)_x$	
<b>TYPICAL PROPERTIES:</b>	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):	2750 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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