



Technical Data Sheet

MATERIAL:	Poly(ethylene oxide)																
CATALOG NUMBER:	344																
CAS NUMBER:	25322-68-3																
DESCRIPTION:	Ethylene oxide homopolymer																
FORMULA:	$(C_2H_4O)_x$																
TYPICAL PROPERTIES:	<table><tr><td>Appearance:</td><td>Powder (98% thru 10 mesh)</td></tr><tr><td>Approx Mw:</td><td>4,000,000</td></tr><tr><td>Density:</td><td>1.21</td></tr><tr><td>Refractive index:</td><td>n_D^{20} 1.4539</td></tr><tr><td>Glass transition temp:</td><td>-67°C</td></tr><tr><td>Melting point:</td><td>65°C</td></tr><tr><td>Viscosity:</td><td>1,650-3,850 cp (1% solution @ 25°C)</td></tr><tr><td>Solubility:</td><td>Acetonitrile, benzene, chlorinated hydrocarbons, DMF, MEK, methanol, THF (hot), water</td></tr></table>	Appearance:	Powder (98% thru 10 mesh)	Approx Mw:	4,000,000	Density:	1.21	Refractive index:	n_D^{20} 1.4539	Glass transition temp:	-67°C	Melting point:	65°C	Viscosity:	1,650-3,850 cp (1% solution @ 25°C)	Solubility:	Acetonitrile, benzene, chlorinated hydrocarbons, DMF, MEK, methanol, THF (hot), water
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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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