



Technical Data Sheet

MATERIAL:	Poly(ethylene oxide)	
CATALOG NUMBER:	136D	
CAS NUMBER:	25322-68-3	
DESCRIPTION:	Ethylene oxide homopolymer	
FORMULA:	$(C_2H_4O)_x$	
TYPICAL PROPERTIES:	Appearance:	Powder (98% thru 10 mesh)
	Approx Mw:	300,000
	Density:	1.21
	Glass transition temp:	-67°C
	Refractive index:	n_D^{20} 1.4539
	Viscosity (5% solution):	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.

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