



Technical Data Sheet

MATERIAL:	Poly(ethylene oxide)
CATALOG NUMBER:	345
CAS NUMBER:	25322-68-3
DESCRIPTION:	Ethylene oxide homopolymer
FORMULA:	$(C_2H_4O)_x$

TYPICAL PROPERTIES:

Appearance:	Powder (98% thru 10 mesh)
Approx Mw:	5,000,000
Density:	1.21
Glass transition temp:	-67°C
Melting point:	65°C
Refractive index:	n_D^{20} 1.4539
Viscosity:	5,500-8,000 cp (1% solution @ 25°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: