



Technical Data Sheet

MATERIAL:	Polyethylene
CATALOG NUMBER:	535
CAS NUMBER:	9002-88-4
DESCRIPTION:	Low molecular weight homopolymer of ethylene
FORMULA:	$(C_2H_4)_x$

TYPICAL PROPERTIES:

Appearance:	Grease-like solid
Approx Mn:	900
Viscosity:	40 cp (140°C)
Density:	0.88
Refractive index:	n_D^{20} 1.51
Softening point:	110°C
Flash point:	> 445°F
Solubility:	Xylene (above 80°C)

GENERAL INFORMATION: Low molecular weight polyethylenes are used in paper coatings, spray coatings, emulsions, printing inks, crayons, and wax polishes. They are also used as additives to butyl rubber and various high molecular weight polyethylenes for improvement of melt flow characteristics, hardness, and abrasion and grease resistance.

STRUCTURE: