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## **Technical Data Sheet**

MATERIAL: Polyethylene

CATALOG NUMBER: 536

**CAS NUMBER:** 9002-88-4

**DESCRIPTION:** Low molecular weight homopolymer of ethylene

FORMULA:  $(C_2H_4)_x$ 

**TYPICAL PROPERTIES:** 

Appearance: Powder Approx Mn: 1,100

Viscosity:  $180 \text{ cp} (140^{\circ}\text{C})$ 

Density: 0.91 Refractive index:  $n_D^{20}$  1.51 Softening point: 102°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.

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