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## **Technical Data Sheet**

**MATERIAL:** Poly(vinyl chloride)

CATALOG NUMBER: 1039

**CAS NUMBER:** 9002-86-2

**DESCRIPTION:** Homopolymer of vinyl chloride

**FORMULA:**  $(C_2H_3Cl)_x$ 

**TYPICAL PROPERTIES:** 

Appearance: Powder

Chlorine content: 56% by weight Approx Mw: 130,000 [GPC]

 $\begin{array}{lll} \text{Inherent viscosity:} & 0.85 \\ \text{Density:} & 1.40 \\ \text{Glass transition temp:} & 85^{\circ}\text{C} \\ \text{Refractive index:} & n_{D}^{20} \ 1.539 \\ \text{Melting point:} & 285^{\circ}\text{C} \\ \text{Solubility parameter:} & 9.53 \\ \text{Flash point:} & 736^{\circ}\text{F} \end{array}$ 

Solubility: Cyclohexanone, DMF, DMSO, MEK,

 $\mathsf{THF}$ 

**GENERAL INFORMATION:** Typical applications include pipe, pipe fittings, packaging films, wire

and cable insulation, sheeting for pool liners and roof coatings, and

adhesives formulations. PVC has the advantage over other

thermoplastic polyolefins of built in fire retardancy because of its 57%

chlorine.

## **STRUCTURE:**

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