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Technical Data Sheet

MATERIAL: Polyacetal

CATALOG NO.: 009

CAS NUMBER: 9002-81-7

DESCRIPTION: Polyformaldehyde; polyoxymethylene; poly(trioxane)

FORMULA: (CH₂O)_x

TYPICAL PROPERTIES:

 $\begin{array}{lll} \mbox{Appearance:} & \mbox{Pellets} \\ \mbox{Density:} & 1.42 \\ \mbox{Refractive index:} & \mbox{n_D^{20} 1.510} \\ \mbox{Glass transition temp:} & -30^{\circ}\mbox{C} \\ \mbox{Melting point:} & 175^{\circ}\mbox{C} \\ \mbox{Solubility parameter:} & 10.2 \\ \end{array}$

Solubility: Cyclohexanol (@ 150°C), DMF

(@135°C), nitrobenzene (@ 148°C)

GENERAL INFORMATION: Polyacetal is a crystalline polymer made by the polymerization of

formaldehyde. It offers an excellent balance of desirable properties that

bridge the gap between metals and plastics. The outstanding

characteristics of polyacetal include stiffness, tensile strength and creep resistance under a wide range of temperature and humidity conditions, high fatigue endurance, and corrosion resistance. It can be injection molded, extruded, blow molded and machined. Typical applications include mechanical parts such as gears, cams and pump impellers.

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