



Technical Data Sheet

MATERIAL:	Polyacetal
CATALOG NO.:	009
CAS NUMBER:	9002-81-7
DESCRIPTION:	Polyformaldehyde; polyoxymethylene; poly(trioxane)
FORMULA:	$(\text{CH}_2\text{O})_x$

TYPICAL PROPERTIES:

Appearance:	Pellets
Density:	1.42
Refractive index:	n_D^{20} 1.510
Glass transition temp:	-30°C
Melting point:	175°C
Solubility parameter:	10.2
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.

STRUCTURE: