

## **Technical Data Sheet**

MATERIAL:	Polyethylene, high density	
CATALOG NUMBER:	041	
CAS NUMBER:	9002-88-4	
DESCRIPTION:	Ethylene homopolymer, high density	
FORMULA:	$(C_2H_4)_x$	
TYPICAL PROPERTIES:	Appearance: Approx Mw: Refractive index: Density: Melt index: Softening point:(Vicat) Solubility:	Pellets 125,000 $n_D^{25}$ 1.54 0.962 (23°C) 0.3 g/10 min 131°C (above 80°C) Aliphatic, cycloaliphatic and aromatic hydrocarbons
GENERAL INFORMATION:	High density polyethylene (HDPE) is produced by a low pressure process using Ziegler-Natta catalysts. HDPE typically contains 5-7 short chain brands per 1000 carbon atoms and very little long chain branching. Major markets for HDPE include blow molding applications (R.G. milk bottles, household chemical bottles, fuel tanks, etc.), corrugated pipe and in wire and cable applications.	

**STRUCTURE:** 

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