Raw Material Data Sheet

CenFlo HDPE for use in Potable Water and Irrigation applications.

ASTM Standards that CenFlo HDPE Meets or Exceeds:

D 2737…Standard Specification for Polyethylene (PE) Plastic Tubing

D 2239…Standard Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter

CenFlo HDPE Raw Material Properties

Property	ASTM Test Method		Typical Values English Units	Typical Values SI Units
Density (Natural)	D 4883		-	0.944 g/cc
Density (Black)			-	0.955 g/cc
Melt Index [1]	D 1238		-	12.5 g/10 min
Tensile Strength				
@ Yield (2 in/min)	D 638		3300 psi	22.8 MPa
@ Break (2 in/min)	D 638		4500 psi	31.0 MPa
Elongation @ Break (2 in/min)	D 638		>800%	>800%
Flexural Modulus [2]	D 790		120,000 psi	827 MPa
Notched Izod Impact Strength	D 256		6.0 ft-lbf/in	0.32 kJ/m
Hardness (Shore D)	D 2240		68	68
Vicat Softening Point	D 1525		259° F	126° C
Brittleness Temperature	D 746		<-180° F	<-118° C
Hydrostatic Design Basis @ 23° C	D 2837		1600 psi	11.0 MPa
@ 60° C	D 2837		800 psi	5.5 MPa
Environmental Stress Crack Resistance [3]	D 1693		>5000 hrs.	>5000 hrs.
Notch Tensile (Pent)	F 1473		>100 hrs.	>100 hrs.
Carbon Black Concentration	D 1603		2.30%	2.30%
Cell Classification	D 3350		345464C	345464C

[1] 190°C21600 g

[2] 2% Secant-Method 1

[3] Condition C

CenFlo is certified by NSF.
CenFlo meets AWWA C901 and C906 Requirements.
CenFlo HDPE is certified by NSF Standards 14 and 61.

Listed April, 2002; Updated June, 2005