



# Material and Technical Data Sheet

## CenFlo MDPE - Potable Water & Irrigation Applications

ASTM Standards that CenFlo MDPE 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 MDPE Raw Material Properties

Property	ASTM Test Method	Typical Values	
		English Units	SI Units
Density (Natural)	D 4883	-	0.940 g/cc
Density (Black)		-	0.949 g/cc
Melt Index <sup>1</sup>	D 1238	-	0.20 g/10 min
Tensile Strength			
@ Yield (2 in/min)	D 638	2800 psi	19.3 MPa
@ Break (2 in/min)	D 638	4500 psi	31.0 MPa
Elongation			
@ Break (2 in/min)	D 638	>800%	>800%
Flexural Modulus <sup>2</sup>	D 790	100,000 psi	690 MPa
Notched Izod Impact Strength	D 256	10.0 ft-lbf/in	0.53 kJ/m
Hardness (Shore D)	D 2240	64	64
Vicat Softening Point	D 1525	248° F	120° C
Brittleness Temperature	D 746	<-180° F	<-118° C
Hydrostatic Design Basis			
@ 23° C	D 2837	1250 psi	8.6 MPa
@ 60° C	D 2837	800 psi	5.5 MPa
Environmental Stress Crack Resistance <sup>3</sup>	D 1693	>5000 hrs.	>5000 hrs.
Environmental Stress Crack Resistance <sup>4</sup>	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	234363C	234363C

<sup>1</sup> 190°C/21600 g

<sup>2</sup> 2% Secant-Method 1

<sup>3</sup> Condition B, 10%

<sup>4</sup> Condition C



CenFlo MDPE is certified by NSF Standards 14 and 61.

Listed April, 2002; Updated June, 2005