



CENCORE 4710 HDPE MATERIAL DATA SHEET

CENCORE 4710 HDPE MEETS OR EXCEEDS:
ASTM D 2737
ASTM D 2239
ASTM D 3350, CELL CLASSIFICATION PE 445576C

CENCORE 4710 PIPE FOR:
POTABLE WATER APPLICATIONS.

NOMINAL PIPE PROPERTIES

	ASTM METHOD	ENGLISH UNITS	SI UNITS
DENSITY	D 4883	-	.949 g/cc
MELT INDEX ¹	D 1238	-	8.5g/10 min
HYDROSTATIC DESIGN BASIS @ (23° C)	D 2837	1600 psi	11.0 MPa
HYDROSTATIC DESIGN BASIS @ (60° C)	D 2837	1000 psi	6.9 MPa
CARBON BLACK CONCENTRATION	D 1603	2.30%	2.30%

NOMINAL RAW MATERIAL PROPERTIES

TENSILE STRENGTH			
@ YIELD (2 in/min)	D 638	3500 psi	24.1 MPa
@ BREAK (2 in/min)	D 638	4400 psi	30.3 MPa
ELONGATION			
@ BREAK (2 in/min)	D 638	>600%	>600%
FLEXURAL MODULUS ²	D 790	130,000 psi	900 MPa
NOTCHED IZOD IMPACT STRENGTH	D 256	12.0 ft-lbf/in	63 kJ/m ²
HARDNESS (SHORE D)	D 2240	64	64
VICAT SOFTENING POINT	D 1525	259° F	126° C
BRITTLINESS TEMPERATURE	D 746	<-180° F	<-118° C
ENVIRONMENTAL STRESS CRACK RESISTANCE ³	D 1693	>5000 hrs.	>5000 hrs.
NOTCH TENSILE (PENT)	F 1473	>10,000 hrs.	>10,000 hrs.
CELL CLASSIFICATION	D 3350	445574C ²	445576C ²

¹ 190°C/21600 g

² 2% Secant-Method 1

³ Condition C

Available in Iron Pipe Size 1/2" - 2".

Centennial Plastics is an ISO 9001 certified company.

CenCore 4710 is certified by NSF.

CenCore meets AWWA C901 Requirements.

CenCore 4710 is certified by NSF Standards 14 and 61.