



## CENGAS 2708 MDPE MATERIAL DATA SHEET

**CENGAS 2708 MDPE MEETS OR EXCEEDS:**  
 ASTM D 2513  
 ASTM D 3350, CELL CLASSIFICATION PE 234373E

**CENGAS 2708 PIPE FOR:**  
 NATURAL GAS, LPG GAS AND PROPANE GAS  
 DISTRIBUTION.

### NOMINAL PIPE PROPERTIES

	ASTM METHOD	ENGLISH UNITS	SI UNITS
DENSITY (YELLOW)	D 4883	-	.939 g/cc
MELT INDEX <sup>1</sup>	D 1238	-	.20 g/10 min
HYDROSTATIC DESIGN BASIS @ (23° C)	D 2837	1250 psi	8.6 MPa
HYDROSTATIC DESIGN BASIS @ (60° C)	D 2837	1000 psi	6.9 MPa

### NOMINAL RAW MATERIAL PROPERTIES

TENSILE STRENGTH			
@ YIELD (2 in/min)	D 638	2800 psi	19.3 MPa
@ BREAK (2 in/min)	D 638	4730 psi	32.5 MPa
ELONGATION			
@ BREAK (2 in/min)	D 638	>800%	>800%
FLEXURAL MODULUS <sup>2</sup>	D 790	90,000 psi	620 MPa
NOTCHED IZOD IMPACT STRENGTH	D 256	6.0 ft-lbf/in	31.5 kJ/m
HARDNESS (SHORE D)	D 2240	62	62
VICAT SOFTENING POINT	D 1525	248° F	120° C
BRITTLINESS TEMPERATURE	D 746	<-180° F	<-118° C
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.
PIPE RING ESCR <sup>5</sup>	F1248	>500 hrs.	>500 hrs.
CELL CLASSIFICATION	D 3350	234373E	234373E

<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

<sup>5</sup> One inch, SIDR 7

Centennial Plastics is an ISO 9001 certified company.

Available in Iron Pipe Size 1/2" - 4".