



# Formolene® E6210C

## High Density Polyethylene

Formolene® E6210C is a bimodal high molecular weight high density resin pressure pipe resin. It contains an enhanced additive package for increased oxidative resistance in potable water systems. When blended with the approved color concentrate, Formolene® E6210C complies with the following industry standards:

- Cell Classification: 445574C CC2 per ASTM D3350
- Material Rating Designation for E6210C
  - Per ASTM a PE 4710 resin with an HDB of 1,600 psi@73°F and 1,000 psi @ 140°F per PPI TR-4
  - Per ISO a PE 100 resin with an MRS 10 at 20°C. It meets the requirements for a PE 100 compound as qualified by ISO 9080 and ISO 12162.
- Meets NSF 14 and 61 for use with potable water systems

### Suggested Applications

Potable Water; Oil and Gas Gathering and Distribution; Chemical, Industrial and Mining; Sewer Systems

### Nominal Physical Properties

PROPERTY	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density					
Natural	D1505	g/cc	0.948	g/cc	0.948
Pigmented Black		g/cc	0.957	g/cc	0.957
Melt Index, Condition E,					
Condition E, 190°C/2.16 kg	D1238	g/10 min.	0.04	g/10 min.	0.04
Condition F, 190°C/21.6 kg (HLMI)	D1238	g/10 min.	6.7	g/10 min.	6.7
<b>Material Properties (Pigmented)</b>					
Tensile Yield Strength					
2 in. per min., Type IV bar	D638	psi	>3,500	MPa	>24
Elongation at Break					
2 in. per min., Type IV bar	D638	%	>600	%	>600
Flexural Modulus,					
2% Secant	D790	psi	>115,000	MPa	>793
1% Secant	D790	psi	>135,000	MPa	>931
(16:1 span:depth, 0.5 in./min.)					
PENT	F1473	h	>2,000	h	>2,000
Thermal Stability Temperature	D3350	F	>500°	C	260°
Brittleness Temperature,					
Type A, Type I specimen	D746	F	<-95°	C	<-70°
Notched Izod Impact @ 23°C					
(1/8' Specimen)	D256	ft•lb/in	9.1	J/m	490

Published 04/22

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (888) FPCUSA3

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA PLASTICS CORPORATION, U.S.A. and users should perform their own tests to determine the suitability of these products for their own particular purposes. However because of numerous factors affecting results, FORMOSA PLASTICS CORPORATION, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statements herein, therefore, should not be construed as representations or warranties. Statements concerning the use of the products of formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.