

Formolene® E6210C

Formosa Plastics Corporation, U.S.A. - High Density (HMW) Polyethylene

Tuesday, November 5, 2019

General Information

Product Description

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

General			
Material Status	Commercial: Active		
Availability	North America		
Additive	 Antioxidant 		
Features	AntioxidantBimodal Molecular Weight Distribution	Food Contact AcceptableHigh Density	High Molecular Weight
Uses	Industrial ApplicationsMining Applications	Oil/Gas ApplicationsPiping	Potable Water Applications
Agency Ratings	ASTM D3350 PE445574C C0ASTM PE4710	C2 • EC 1907/2006 (REACH) • ISO PE 100	NSF STD-14NSF STD-61
Forms	• Pellets		
Processing Method	• Extrusion	Pipe Extrusion	

AST	M & ISO Properties ¹		
Physical	Nominal Value	Unit	Test Method
Density			ASTM D1505
Natural	0.948	g/cm³	
Black	0.957	g/cm³	
Melt Mass-Flow Rate			ASTM D1238
190°C/2.16 kg ²	0.040	g/10 min	
190°C/21.6 kg ³	6.7	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ^{4, 5} (Yield)	> 3480	psi	ASTM D638
Tensile Elongation ^{4, 5} (Break)	> 600	%	ASTM D638
Flexural Modulus ⁶			ASTM D790
1% Secant : 0.0394 in, 0.630 in Span	> 135000	psi	
2% Secant : 0.0394 in, 0.630 in Span	> 115000	psi	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.00492 in)	9.2	ft·lb/in	ASTM D256

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Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ⁷	< -94.0	°F	ASTM D746A
Thermal Stability	500	°F	ASTM D3350
Additional Information	Nominal Value	Unit	Test Method
PENT	> 2000	hr	ASTM F1473
Notes			
¹ Typical properties: these are not to be construed as specifications.			
² MI			
³ HLMI			
⁴ Type IV, 2.0 in/min			
⁵ Pigmented			
⁶ 0.50 in/min			

⁷ Type I

