

Formolene® HP3902

Medium Density Polyethylene
Formosa Plastics Corporation, U.S.A.

Message:

Formolene® HP3902 is a high performance copolymer that is designed for pressure pipe and conduit applications. It has outstanding pipe ring ESCR and it incorporates a UV stabilizer.

Formolene® HP3902 meets all requirements of ASTM D4976 - PE 225.

When blended with the approved color concentrates, Formolene® HP3902 has a cell class of 234373E per ASTM D3350-05, is listed by PPI as a PE2708 material with HDB's of 1,250 psi @ 73°F and 1,000 psi @ 140°F, meets the requirements of CAN/CSA Standard B137.4-02 for gas pipe and NSF Standard 14/61 for use with potable water.

Formolene® HP3902 also qualifies as a PE2406 material under the old ASTM D3350-02a and PPI standards.

Formolene® HP3902 also qualifies as a PE80 material per ISO 9080.

General Information			
Additive	UV Stabilizer		
Features	Good UV Resistance		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	Medium Density		
Uses	Conduit		
	Fluid Handling		
	Fuel Lines		
	Piping		
Agency Ratings	ASTM D 3350 PE234373E		
	CSA B137.4-02		
	EC 1907/2006 (REACH)		
	ISO 9080 PE 80		
	NSF 14		
	NSF 61		
	PPI PE-2406		
	PPI PE-2708		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.20	g/10 min	
190°C/21.6 kg	20	g/10 min	

Environmental Stress-Cracking Resistance			
100% Igepal, Compression Molded, F50	> 5000	hr	ASTM D1693A
100% Igepal, Compression Molded, F50	> 5000	hr	ASTM D1693B
100% Igepal, Compression Molded, F50	> 5000	hr	ASTM D1693C
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, Compression Molded	19.3	MPa	
Break, Compression Molded	33.1	MPa	
Tensile Elongation ² (Break, Compression Molded)	> 500	%	ASTM D638
Flexural Modulus			
Compression Molded	621	MPa	ASTM D3350
Compression Molded	758	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -90.0	°C	ASTM D746
Additional Information	Nominal Value	Unit	Test Method
PENT - slow crack growth	< 1000	hr	ASTM F1473
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		

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