Formolene® HP4000

High Density Polyethylene

Formosa Plastics Corporation, U.S.A.

Message:

Formolene® HP4000 is a high performance copolymer that is designed for the most demanding requirements of nonpressure pipe applications. It has good long-term hoop strength performance, very high melt strength, and outstanding toughness even at low temperatures.
Formolene® HP4000 meets all requirements of ASTM D4976 - PE 235
Formolene® HP4000 meets the requirements of ASTM F 2160 for use in solid wall HDPE conduit based pipe.

General Information			
Features	Copolymer Good Melt Strength Good Toughness High Density Low Temperature Toughness		
Uses	Conduit Piping		
Agency Ratings	ASTM D 4976-PE235 ASTM F 2160 EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Compression Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.944	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.16	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
100% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693A
100% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693B
100% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693C
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield, Compression Molded	22.1	MPa	
Break, Compression Molded	34.5	MPa	
Tensile Elongation [2] (Break, Compression Molded)	> 500	%	ASTM D638
Flexural Modulus			
Compression Molded	758	MPa	ASTM D3350
Compression Molded	965	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -90.0	°C	ASTM D746
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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