



Formolene® HP6000

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® HP6000 is a high quality product for homopolymer pipe extrusion applications. It has excellent stiffness and good stiffness properties.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Good Stiffness • Homopolymer
Uses	• Construction Applications • Corrugated Pipe • Piping
Agency Ratings	• EC 1907/2006 (REACH)
Forms	• Pellets
Processing Method	• Pipe Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.964	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.65	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			
Compression Molded, F50	10.0	hr	ASTM D1693B
100% Igepal, Compression Molded, F50	15.0 to 20.0	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Compression Molded)	4350	psi	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	> 300	%	ASTM D638
Flexural Modulus (Compression Molded)	240000	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -180	°F	ASTM D746

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type IV, 2.0 in/min