

Formolene® HP6000

High Density Polyethylene

Formosa Plastics Corporation, U.S.A.

Technical Data

Product Description

High Density Polyethylene Homopolymer for Pipe Extrusion

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
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• Formosa Plastics Corporation, U.S.A. • Formolene®
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

Physical	Nominal Value Unit	Test Method
Density	0.964 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.65 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance		
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 ³ (Yield, Compression Molded)	30.3 MPa	ASTM D638
Tensile Elongation ³		ASTM D638
Break, Compression Molded	> 300 %	
Flexural Modulus (Compression Molded)	1650 MPa	ASTM D790

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -118 °C	ASTM D746

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Type IV, 51 mm/min