Formosa Plastics®

Formolene® HDPE

Formolene® HP6000

High Density Polyethylene (HDPE) Resin for Various Extrusion Applications

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

Suggested Applications:

Corrugated Pipe
Drain Tile
Composite Lumber

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	English UNIT	English VALUE	SI UNIT	SI VALUE
Density	D1505	g/cc	0.964	g/cc	0.964
Melt Index, Condition E, 190ºC/2.16 kg	D1238	g/10 min	0.65	g/10 min	0.65
Environmental Stress Crack Resistance (ESCR)					
Condition A, F_{50} (100% Igepal)	D1693	h	15-20	h	15-20
Condition B, F_{50}	D1693		10		10
Tensile Yield Strength	D638				
2” (50 mm) per min.	Type IV	psi.	4400	MPa	30
Ultimate Elongation	D638				
2” (50 mm) per min.	Type IV	%	>300	%	>300
Brittleness Temperature	D746	°F	<-180	°C	<-118
Flexural Modulus	D790	psi.	240,000	MPa	1654

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D4703, Annex A1.

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

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