



Formosa Plastics®

Formolene® HDPE

Formolene® DB5305A

Extra High Molecular Weight Polyethylene

Formolene® DB5305A is tailored for large part blow molding applications. Besides having excellent chemical resistance properties Formolene® DB5305A HDPE has outstanding environmental stress crack resistance properties and exceptional impact and creep resistance.

Formolene® DB5305A meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(c) 3.2a, covering safe use of polyolefin articles intended for direct food contact. Formolene® DB5305A also meets all requirements of ASTM D4976-95 – PE 235.

Suggested Applications:

55-Gallon Drums
Industrial Tanks

Heavy Gauge Sheet
Large Diameter Corrugated Pipe

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.954	g/cc	0.954
HLMI, Condition F, 190°C/21.6 kg	D1238	g/10 min.	5.5	g/10 min.	5.5
Environmental Stress Crack Resistance, ESCR, Condition B(100% Igepal), F ₅₀	D1693	h	>1000	h	>1000
Ultimate Elongation, 2" (50 mm) per min.	D638	%	>600	%	>600
Tensile Yield Strength, 2" (50 mm) per min.	Type IV D638	psi.	4200	MPa	29
Brittleness Temperature	D746	°F	<-94	°C	<-70
Flexural Modulus	D790	psi.	195,000	MPa	1340
Vicat Softening Temperature	D1525	°F	259	°C	126
Heat Deflection Temperature	D648	°F	165	°C	74
Tensile Impact	D1822	ft-lb/in ²	215	KJ/m ²	450

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928.

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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ISO 9001:2008
FS 70459
FM 31429



ISO 14001:2004
EMS 35710

