

Formolene® DB5305A

Ultra High Molecular Weight Polyethylene

Formosa Plastics Corporation, U.S.A.

Message:

Formolene DB5305A is tailored for large part blow molding applications. Besides having excellent chemical resistance properties 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
 - Heavy Gauge Sheet
 - Industrial Tanks
 - Large Diameter Corrugated Pipe

General Information	
Features	Food Contact Acceptable
	Good Chemical Resistance
	Good Creep Resistance
	Good Impact Resistance
	High ESCR (Stress Crack Resist.)
	Ultra High Molecular Weight
Uses	Blow Molding Applications
	Corrugated Pipe
	Drums
	Industrial Tanks
	Sheet
Agency Ratings	ASTM D 4976-95-PE235
	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1520(c) 3.2a
Forms	Pellets
Processing Method	Blow Molding
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹ (Yield, Compression Molded)	29.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	> 600	%	ASTM D638
Flexural Modulus (Compression Molded)	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	452	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	73.9	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

