

Marlex® 9005

High Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® 9005 is a High Density Polyethylene material. It is available in Latin America or North America for extrusion or injection molding.

Important attributes of Marlex® 9005 are:

Flame Rated

Eco-Friendly/Green

Food Contact Acceptable

Hexene Comonomer

High ESCR (Stress Crack Resistant)

Typical applications include:

Containers

Agricultural

Food Contact Applications

Industrial Applications

Seating

General Information			
UL YellowCard	E349283-100986346		
Features	Durable Food Contact Acceptable Good Impact Resistance Hexene Comonomer High ESCR (Stress Crack Resist.) Low Warpage Medium Flow Recyclable Material		
Uses	Agricultural Applications Containers Food Containers Industrial Applications Seats		
Agency Ratings	ASTM D 4976-PE233 FDA 21 CFR 177.1520(c) 3.2a		
UL File Number	E54700		
Forms	Pellets		
Processing Method	Extrusion Injection Molding		
Physical	Nominal Value	Unit	Test Method

Density	0.945	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	90.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	23.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	1000	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	1070	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	121	°C	ASTM D1525 ⁴
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

NOTE

- | | |
|----|-----------------------------------|
| 1. | Type IV, 51 mm/min |
| 2. | Type IV, 51 mm/min |
| 3. | 13 mm/min |
| 4. | Rate A (50°C/h), Loading 1 (10 N) |

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

