

# Marlex® 9006

High Density Polyethylene

Chevron Phillips Chemical Company LLC

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Marlex® 9006 is a High Density Polyethylene material. It is available in Latin America or North America for extrusion or injection molding.

Important attributes of Marlex® 9006 are:

- Eco-Friendly/Green
- Food Contact Acceptable
- Good Stiffness
- Hexene Comonomer
- Impact Resistant

Typical applications include:

- Automotive
- Caps/Lids/Closures
- Containers
- Foam
- Food Contact Applications

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Injection (English)</a> • <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">Chevron Phillips Chemical Company LLC</a> • <a href="#">Marlex®</a>
Availability	• Latin America      • North America
Features	• Durable      • Good Stiffness • Food Contact Acceptable      • Hexene Comonomer      • Recyclable Material • Good Impact Resistance      • Medium Flow
Uses	• Automotive Applications      • Lids • Foam      • Pails
Agency Ratings	• ASTM D 4976-PE233      • FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets
Processing Method	• Extrusion      • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.953 g/cm <sup>3</sup>	0.953 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.6 g/10 min	6.6 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance 100% Igepal, Compression Molded, F50	20.0 hr	20.0 hr	ASTM D1693B
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength <sup>3</sup> (Yield, Compression Molded)	4060 psi	28.0 MPa	ASTM D638
Tensile Elongation <sup>3</sup> Break, Compression Molded	950 %	950 %	ASTM D638
Flexural Modulus - Tangent <sup>4</sup> (Compression Molded)	184000 psi	1270 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness Shore D, Compression Molded	62	62	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -103 °F	< -75.0 °C	ASTM D746A
Vicat Softening Temperature	257 °F	125 °C	ASTM D1525 <sup>5</sup>



**Notes**

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> Type IV, 2.0 in/min (51 mm/min)

<sup>4</sup> 0.50 in/min (13 mm/min)

<sup>5</sup> Rate A (50°C/h), Loading 1 (10 N)



## Marlex® 9006

High Density Polyethylene

**Chevron Phillips Chemical Company LLC**

# PROSPECTOR®

[www.ulprospector.com](http://www.ulprospector.com)

### Where to Buy

#### Supplier

##### **Chevron Phillips Chemical Company LLC**

The Woodlands, TX USA

Telephone: 800-231-1212

Web: <http://www.cpchem.com/>

#### Distributor

##### **Amco Polymers**

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

##### **M. Holland Canada Company**

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

##### **M. Holland Company**

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

##### **PolyOne Distribution**

*PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.*

Telephone: 800-894-4266

Web: <http://polyonedistribution.com/>

Availability: Global

