

Marlex® 9018

High Density Polyethylene

Chevron Phillips Chemical Company LLC

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Marlex® 9018 is a High Density Polyethylene material. It is available in Europe, Latin America, or North America for injection molding.

Important attributes of Marlex® 9018 are:

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

Typical applications include:

- Containers
- Automotive
- Caps/Lids/Closures
- Consumer Goods
- Food Contact Applications

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Injection (English) • Technical Datasheet (English)
Search for UL Yellow Card	• Chevron Phillips Chemical Company LLC • Marlex®
Availability	• Europe • Latin America • North America
Features	• Durable • Good Impact Resistance • Food Contact Acceptable • Good Stiffness • Recyclable Material • Good Flow • Hexene Comonomer
Uses	• Automotive Applications • Containers • Pails • Caps • Household Goods • Toys
Agency Ratings	• ASTM D 4976-PE232 • FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	0.952 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance 100% Igepal, Compression Molded, F50	< 10.0 hr	ASTM D1693B

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield, Compression Molded)	27.0 MPa	ASTM D638
Tensile Elongation ³ Break, Compression Molded	300 %	ASTM D638
Flexural Modulus - Tangent ⁴ (Compression Molded)	1200 MPa	ASTM D790

Hardness	Nominal Value Unit	Test Method
Durometer Hardness Shore D, Compression Molded	63	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -75.0 °C	ASTM D746A
Vicat Softening Temperature	122 °C	ASTM D1525 ⁵



Notes

¹ 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.

² Typical properties: these are not to be construed as specifications.

³ Type IV, 51 mm/min

⁴ 13 mm/min

⁵ Rate A (50°C/h), Loading 1 (10 N)



Marlex® 9018

High Density Polyethylene

Chevron Phillips Chemical Company LLC

PROSPECTOR®

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

Biesterfeld Plastic GmbH

Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.

Telephone: +49-40-32008-0

Web: <http://www.biesterfeld-plastic.com/>

Availability: Denmark, Faroe Islands, Finland, Iceland, Norway, Sweden, United Kingdom

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

