Marlex® 9018

High Density Polyethylene Chevron Phillips Chemical Company LLC

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	DurableFood Contact AcceptableGood Flow	Good Impact ResistanceGood StiffnessHexene Comonomer	Recyclable Material
Uses	Automotive ApplicationsCaps	ContainersHousehold Goods	PailsToys
Agency Ratings	• ASTM D 4976-PE232	• FDA 21 CFR 177.1520(c) 3.2a	a
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		ASTM D1693B
100% Igepal, Compression Molded, F50	< 10.0 hr	
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield, Compression Molded)	27.0 MPa	ASTM D638
Tensile Elongation ³		ASTM D638
Break, Compression Molded	300 %	
Flexural Modulus - Tangent ⁴ (Compression Molded)	1200 MPa	ASTM D790
Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore D, Compression Molded	63	
Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -75.0 °C	ASTM D746A
Vicat Softening Temperature	122 °C	ASTM D1525 5



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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)



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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



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