

Marlex® 9018

High Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

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 Information			
Features	Durable		
	Food Contact Acceptable		
	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	Hexene Comonomer		
	Recyclable Material		
Uses	Automotive Applications		
	Caps		
	Containers		
	Household Goods		
	Pails		
	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

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	27.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	300	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	1200	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	122	°C	ASTM D1525 ⁴
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)		

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