

Marlex® 7104

Linear Low Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

Marlex® 7104 is a Linear Low Density Polyethylene material. It is available in Latin America or North America for coextrusion or sheet extrusion. Important attributes of Marlex® 7104 are:

- Good Flexibility
- Good Processability
- Hexene Comonomer
- High ESCR (Stress Crack Resistant)
- High Molecular Weight

Typical applications include:

- Additive/Masterbatch
- Caps/Lids/Closures
- Food Contact Applications
- Membranes
- Sheet

General Information			
Features	Good Flexibility		
	Good Melt Strength		
	Good Processability		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Friction		
	High Molecular Weight		
	Medium Gloss		
Uses	Blending		
	Caps		
	Geo Membranes		
	Sheet		
Agency Ratings	ASTM D 4976-PE215		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Coextrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance			
10% Igepal, Compression Molded, F50	> 2000	hr	ASTM D1693B
100% Igepal, Compression Molded, F50	> 2000	hr	ASTM D1693C
SP-NCTL	> 1.4	month	ASTM D5397
Oxidation Induction Time (200°C)	> 100	min	ASTM D3895
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	51		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	11.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	700	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	410	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	51.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	100	°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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WECHAT