

MarFlex® 4553

Low Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

MarFlex® 4553 is a Low Density Polyethylene material. It is available in Latin America or North America for cast film or extrusion.
Important attributes of MarFlex® 4553 are:
Good Tear Strength
Slip
Typical applications include:
Film
Medical/Healthcare
Packaging

General Information			
Additive	Slip (650 ppm)		
Features	General Purpose		
	Good Drawdown		
	Good Tear Strength		
	Low Friction		
	Low Neck-In		
	Slip		
Uses	Cast Film		
	General Purpose		
	Packaging		
	Personal Care		
Forms	Pellets		
Processing Method	Cast Film		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Cast Film)	0.13		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	
Oxygen Transmission Rate (32 µm, Cast Film)	6200	cm ³ /m ² /24 hr	ASTM D3985
Water Vapor Transmission Rate (32 µm, Cast Film)	13	g/m ² /24 hr	ASTM F1249

Dart Drop Test - Cast Film (31.8 μm)	25.1	kN/m	ASTM D1709
Elmendorf Tear Strength ¹			ASTM D1922
MD : 31.8 μm	123.5	kN/m	
TD : 31.8 μm	48.3	kN/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ASTM D1525
Melting Temperature	109	°C	
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 31.8 μm, Cast Film)	84		ASTM D2457
Haze (31.8 μm, Cast Film)	9.5	%	ASTM D1003
NOTE			

1. Cast Film

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Recommended distributors for this material

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