Marlex® 5626

Low Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

This low density polyethylene is tailored for blown film applications that require:
Excellent retention of properties after aging
Excellent shrink properties
High coefficient of friction
Typical blown film applications include:
Heavy duty packaging
Case shrink wrap

General Information			
Additive	Anti-caking agent (4000 ppm)		
Features	High Friction Anti-caking property High shrinkage		
Uses	Blown Film Packaging Films Shrinkable film		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.65	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Blown Film)	0.50		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	51	µm	
secant modulus			ASTM D882
1% secant, MD: 51 µm, blown film	180	MPa	ASTM D882
1% secant, TD: 51 µm, blown film	210	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 51 µm, blown film	25.0	MPa	ASTM D882
TD: Broken, 51 µm, blown film	24.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 51 µm, blown film	230	%	ASTM D882
TD: Broken, 51 µm, blown film	540	%	ASTM D882

Oxygen Permeability (51 µm, Blown Film)	210	$cm^3 \cdot mm/m^2/atm/24\ hr$	ASTM D3985
Water Vapor Transmission Rate (51 µm, Blown Film)	0.47	$g \cdot mm/m^2/atm/24\ hr$	ASTM F1249
Dart Drop Test - Blown Film (50.8 µm)	42.5	kN/m	ASTM D1709
Elmendorf Tear Strength [1]			ASTM D1922
MD : 50.8 µm	37.1	kN/m	ASTM D1922
TD : 50.8 µm	41.7	kN/m	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ASTM D1525
Peak Melting Temperature	114	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 50.8 µm, Blown Film)	82		ASTM D2457
Haze (50.8 µm, Blown Film)	10	%	ASTM D1003
NOTE			
1.	Blown Film		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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