Marlex® D574

High Density Polyethylene

Saudi Polymers Company

Message:

This extra high molecular weight, hexene copolymer is tailored for blown film applications that require:
Toughness and durability
Good processability
Good blending characteristics with LLDPE and LDPE resins
Typical applications for D574 include:
T-shirt and shopping bags
Multi-wall liners
Produce and trash bags

General Information			
Features	Ultra high molecular weight Copolymer hexene comonomer Workability, good Durability Good toughness Compliance of Food Exposure		
Uses	Films Lining Bags		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.950	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.070	g/10 min	ASTM D1238
190°C/21.6 kg	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus - Tangent (Compression Molded)	1200	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	

Tensile Strength [1]			ASTM D882
MD: Yield, 25 µm, blown film	26.0	MPa	ASTM D882
TD: Yield, 25 µm, blown film	28.0	MPa	ASTM D882
Tensile Elongation [2]			ASTM D882
MD: Broken, 25 µm, blown film	150	%	ASTM D882
TD: Broken, 25 µm, blown film	350	%	ASTM D882
Dart Drop Impact [3] (25 µm, Blown Film)	250	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	15	g	ASTM D1922
TD: 25 µm, blown film	200	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature [4]	< -75.0	°C	ASTM D746A

Additional Information

The physical properties were determined on compression moulded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

NOTE

1.	51 mm/min
2.	51 mm/min
3.	66 cm
4.	Type I specimen

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