Marlex® HHM TR-131

Medium Density Polyethylene

Saudi Polymers Company

Message:

This high molecular weight, hexene copolymer is tailored for blown film applications that require:
Soft feel
Good toughness, impact strength and tear resistance
Good blending characteristics with HDPE HMW resins
Typical applications for HHM TR-131 include:
T-shirt bags
Shopping bags
Trash bags

General Information			
Features	High molecular weight Copolymer hexene comonomer Impact resistance, good Good tear strength Good toughness Soft Compliance of Food Exposure		
Uses	Films 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	0.938	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	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)	760	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	21.0	MPa	ASTM D882
TD: Yield, 25 µm, blown film	23.0	MPa	ASTM D882
Tensile Elongation [2]			ASTM D882
MD: Broken, 25 µm, blown film	500	%	ASTM D882
TD: Broken, 25 µm, blown film	660	%	ASTM D882
Dart Drop Impact [3] (25 µm, Blown Film)	170	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	30	g	ASTM D1922
TD: 25 µm, blown film	350	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

Recommended distributors for this material

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