

Braskem PE HC1828

Linear Low Density Polyethylene

Braskem

Message:

HC1828 is a Linear Low Density Polyethylene, 1-hexene copolymer, produced by gas phase process. Developed for cast film extrusion. Films obtained with this product show high load retention, outstanding puncture and tear resistance, excellent optical properties and are recommended for automatic application. It contains antioxidant additive.

Applications:

Stretch films, liners, LLDPE and HDPE blends and packages for general use.

Process:

HC1828 must be processed in cast extruder, adjusted to this polymer. The excellent conditions of processing in accordance with the type of used equipment, but the best results are gotten with 220 to 270°C extrusion temperature.

General Information			
Features	Low density		
	Optical		
	Good tear strength		
	General		
Uses	Films		
	General		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD: Break, 25 µm	46.0	MPa	ASTM D882
TD: Break, 25 µm	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	510	%	ASTM D882
TD: Break, 25 µm	770	%	ASTM D882
Flexural Modulus			ASTM D790
1% Secant, MD : 25 µm	147	MPa	ASTM D790
1% Secant, TD : 25 µm	157	MPa	ASTM D790
Dart Drop Impact ¹ (25 µm)	87	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	44	g	ASTM D1922
TD : 25 µm	150	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method

Gloss (60°, 25.0 μm)	92		ASTM D2457
Haze	2.0	%	ASTM D1003
Extrusion instructions			
Recommended Cast Film Extrusion Conditions: Temperature Profile: 220°C to 270°C			
NOTE			
1.	F50		

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