

Braskem PE F-2022/0

Low Density Polyethylene

Braskem

Message:

Excellent sealing characteristics and optical properties with well balanced mechanical properties.

Application

General purpose which require no additives; shrink films for goods; flat film for diapers and injection blow molding. Recommended film thickness: 0.025-0.100mm.

General Information	
Features	High ESCR (Stress Cracking Resistance)
	Optical
Uses	Films
	Blow molding applications
	Shrinkable film
	General
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Blow film
	Casting
	Injection blowing molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength			ASTM D882
MD: Broken, 30 µm, blown film	40.0	MPa	ASTM D882
TD: Broken, 30 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 30 µm, blown film	230	%	ASTM D882
TD: Broken, 30 µm, blown film	900	%	ASTM D882
Dart Drop Impact (30 µm, Blown Film)	70	g	ASTM D1709A
Elmendorf Tear Strength - TD (30 µm, Blown Film)	90	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 µm, Blown Film)	93		ASTM D2457
Haze (30.0 µm, Blown Film)	8.0	%	ASTM D1003

Additional Information

Film properties taken from 25µm film produced on a 40 mm extruder with BUR=2.2:1

Extrusion instructions

Blow Film Extrusion

Temperature profile: 120 to 170°C.

Blow up ratio: 1.8 to 3.0:1

Blow Molding

Temperature profile: 180 to 310°C. The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

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