

# Braskem PE LD4003

Low Density Polyethylene

Braskem

Message:

LD4003 is a Low Density Polyethylene produced under high pressure conditions in a tubular reactor. It offers good processability and excellent mechanical and optical properties.

Additives:

Slip and Antiblock

Application:

Films for general purposes, technical films for automatic packaging and blends with LLDPE.

Process:

Recommended processing conditions for film extrusion about 150 -165 °C. The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.

General Information			
Additive	Anti-caking agent		
	slip agent		
Features	smoothness		
	Optical		
	Anti-caking property		
	Workability, good		
Uses	Films		
	Mixing		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% sectioning, MD: 70 µm, blown film	145	MPa	ASTM D882
1% sectioning, TD: 70 µm, blown film	150	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: broken, 70 µm, blown film	25.0	MPa	ASTM D882
TD: broken, 70 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: broken, 70 µm, blown film	590	%	ASTM D882
TD: broken, 70 µm, blown film	920	%	ASTM D882
Dart Drop Impact (70 µm, Blown Film)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922

MD: 70 μm, blown film	460	g	ASTM D1922
TD: 70 μm, blown film	300	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45 °, 70.0 μm, blown film	79		ASTM D2457
60 °, 70.0 μm, blown film	116		ASTM D2457
Haze (70.0 μm, Blown Film)	7.0	%	ASTM D1003

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