

# TOTAL Polyethylene L 425

Metallocene Polyethylene  
TOTAL Refining & Chemicals

Message:

L425: Blown film polyethylene grade. Provides excellent bubble stability, exceptional tear strength, high impact and puncture resistance, outstanding clarity and gloss, good stiffness, excellent compatibility with LDPE and LLDPE.  
Applications: L425 is recommended for shrink films, heavy duty sacks, food packaging, laminations and multilayer packaging film.

General Information			
Features	Rigid, good		
	Highlight		
	Perforation resistance		
	Impact resistance, high		
	Good tear strength		
	Definition, high		
Uses	Blown Film		
	Packaging		
	Films		
	Laminate		
	Food packaging		
	Shrinkable film		
	Heavy packing bag		
Forms	Particle		
Processing Method	Lamination method		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.925	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.40	g/10 min	ASTM D1238
190°C/21.6 kg	12	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882A
1% secant, MD: 25 µm, blown film	228	MPa	ASTM D882A
1% secant, TD: 25 µm, blown film	234	MPa	ASTM D882A
Tensile Strength			ASTM D882A
MD: Broken, 25 µm, blown film	44.8	MPa	ASTM D882A
TD: Broken, 25 µm, blown film	41.4	MPa	ASTM D882A

Tensile Elongation			ASTM D882A
MD: Broken, 25 µm, blown film	700	%	ASTM D882A
TD: Broken, 25 µm, blown film	800	%	ASTM D882A
Dart Drop Impact (25 µm, Blown Film)	300	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	350	g	ASTM D1922
TD: 25 µm, blown film	800	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	120	°C	ASTM D3417
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (45°, 25.4 µm, Blown Film)	60		ASTM D523
Haze (25.4 µm, Blown Film)	8.0	%	ASTM D1003

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#### Recommended distributors for this material

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