

# TOTAL Polyethylene Lumicene® Supertough 22ST05

Linear Low Density Polyethylene

TOTAL Refining & Chemicals

## Message:

Lumicene® Supertough 22ST05 is a polyethylene blown film grade that is especially designed to have an excellent processability on extrusion and conversion lines and to give a very high toughness - stability balance allowing new innovative multilayer film concepts. Thanks to this innovative design, Lumicene® Supertough 22ST05 brings a huge down-gauging potential in the film market.

General Information	
Additive	Processing aid Antioxidation
Features	Antioxidation Workability, good Good toughness
Uses	Films
Agency Ratings	EC 1907/2006 (REACH)
Processing Method	Blow film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Tensile Stress			
MD: Yield, 40 µm, blown film	9.80	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	10.1	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	65.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	60.0	MPa	ISO 527-3/1B
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	630	%	ISO 527-3
TD: Broken, 40 µm, blown film	690	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	> 1000	g	ISO 7765-1
Elmendorf Tear Strength <sup>1</sup>			ISO 6383-2
MD : 40.0 µm	75.0	kN/m	ISO 6383-2
TD : 40.0 µm	150.0	kN/m	ISO 6383-2

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ISO 306
Melting Temperature	113	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	60		ASTM D2457
Haze (40.0 µm, Blown Film)	7.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 230	°C	
Extrusion instructions			
BUR: 1.5:1 to 4.5:1 Die gap: 1.2 to 2.8 mm			
NOTE			
1.	Blown Film		

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#### Recommended distributors for this material

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