

TOTAL Polyethylene Lumicene® Supertough

32ST05

Medium Density Polyethylene
TOTAL Refining & Chemicals

Message:

Lumicene® Supertough 32ST05 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 - stiffness balance allowing new innovative multilayer film concepts. Thanks to this innovative design, Lumicene® Supertough 32ST05 brings a huge down-gauging potential in the film market.

General Information			
Additive	Processing aid		
	Antioxidation		
Features	Rigid, good		
	Antioxidation		
	Workability, good		
	Good toughness		
Uses	Films		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.932	g/cm ³	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	15.5	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	16.0	MPa	ISO 527-3
MD: Broken, 40 µm, blown film	57.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	48.0	MPa	ISO 527-3/1B
Tensile Elongation			
MD: Broken, 40 µm, blown film	580	%	ISO 527-3
TD: Broken, 40 µm, blown film	630	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	> 280	g	ISO 7765-1
Elmendorf Tear Strength ¹			
MD : 40.0 µm	55.0	kN/m	ISO 6383-2
TD : 40.0 µm	200.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	115	°C	ISO 306

Melting Temperature	123	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	50		ASTM D2457
Haze (40.0 µm, Blown Film)	14	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 230	°C	
Extrusion instructions			
BUR: 1.5:1 to 4.5:1Die gap: 1.2 to 2.8 mm			
NOTE			
1.	Blown Film		

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