

TOTAL Polyethylene Lumicene® Supertough

20ST20

Metallocene Linear Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

Lumicene Supertough® 20ST20 is a polyethylene film grade that is especially designed to have an excellent processability in cast extrusion and to give very high "toughness - holding" force balance allowing new innovative multilayer film concepts. Thanks to this innovative design, Lumicene Supertough® 20ST20 allows creation of added value in the film market.

General Information			
Additive	Antioxidation		
Features	Excellent Processability		
	Low density		
	Antioxidation		
	Good toughness		
Uses	Films		
	Multilayer film		
	cast film		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Tensile Stress			ISO 527-3
MD: Yield, 20 µm, cast film	7.80	MPa	ISO 527-3
TD: Yield, 20 µm, cast film	7.70	MPa	ISO 527-3
MD: Fracture, 20 µm, cast film	37.0	MPa	ISO 527-3
TD: Fracture, 20 µm, cast film	39.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture, 20 µm, cast film	380	%	ISO 527-3
TD: Fracture, 20 µm, cast film	610	%	ISO 527-3
Dart Drop Impact (20 µm, Cast Film)	1100	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2

MD: 20 μm, cast film	40	N	ISO 6383-2
TD: 20 μm, cast film	140	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ISO 306
Melting Temperature	112	°C	ISO 11357-3
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 280	°C	
Take-Off Roll	20 - 80	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

