

TECHNICAL DATA SHEET

LUMICENE® mPE M 5510 EP

TotalEnergies

Processing

Blown film extrusion, Film extrusion

Special Characteristics

Heat stabilized or stable to heat, Transparent

Features

Barrier properties, Blending resin, Homopolymer

Chemical Resistance

Oxidation resistance

Certifications

Food contact

Applications

Packaging

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	1.2	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	134	°C	ISO 11357-1/-3
Optical Properties	Value	Unit	Standard
Haze	24		ISO 14782
Gloss	40		ASTM D 2457
Other Properties	Value	Unit	Standard
Density	955	kg/m ³	ISO 1183
Film Properties	Value	Unit	Standard
Stress at yield, parallel	27.5	MPa	ISO 527-3
Stress at yield, normal	28	MPa	ISO 527-3
Stress at break, parallel	57	MPa	ISO 527-3
Stress at break, normal	45	MPa	ISO 527-3
Maximum strain, parallel	870	%	ISO 527-3
Maximum strain, normal	910	%	ISO 527-3
Dart drop A	100	g	ISO 7765-1
Type of extrusion	blown		
Thickness of specimen	0.04	mm	

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Processing Recommendation Extrusion	Value	Unit	Standard
Melt temperature	200 - 230	°C	