

TECHNICAL DATA SHEET

LUMICENE® mPE M 4707 EP

TotalEnergies

Processing

Blown film extrusion, Film extrusion

Special Characteristics

Transparent

Features

Blending resin, High gloss

Chemical Resistance

Oxidation resistance

Certifications

Food contact

Applications

Packaging

Product Text

Product Information

Lumicene mPE M 4707 EP is a metallocene based High Density Polyethylene with hexene as comonomer.

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	0.7	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	131	°C	ISO 11357-1/-3
Optical Properties	Value	Unit	Standard
Haze	14		ISO 14782
Gloss	50		ASTM D 2457
Other Properties	Value	Unit	Standard
Density	947	kg/m ³	ISO 1183
Film Properties	Value	Unit	Standard
Stress at yield, parallel	24	MPa	ISO 527-3
Stress at yield, normal	25	MPa	ISO 527-3
Stress at break, parallel	39	MPa	ISO 527-3
Stress at break, normal	38	MPa	ISO 527-3
Maximum strain, parallel	610	%	ISO 527-3

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Film Properties	Value	Unit	Standard
Maximum strain, normal	750	%	ISO 527-3
Dart drop A	80	g	ISO 7765-1
Type of extrusion	blown		
Thickness of specimen	0.04	mm	

Processing Recommendation Extrusion	Value	Unit	Standard
Type of extrusion	blown		
Melt temperature	180 - 230	°C	