

TECHNICAL DATA SHEET

LUMICENE® mPE M 4040

TotalEnergies

Processing

Film extrusion

Features

Blending resin, Good drawdown, Low neck-in

Chemical Resistance

Oxidation resistance

Applications

Packaging

Product Text

Product Information

Lumicene mPE M 4040 is a metallocene based Polyethylene with hexene as comonomer.

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	4	g/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	126	°C	ISO 11357-1/-3
Optical Properties	Value	Unit	Standard
Haze	5.5		ISO 14782
Gloss	86		ASTM D 2457
Other Properties	Value	Unit	Standard
Density	940	kg/m ³	ISO 1183
Film Properties	Value	Unit	Standard
Stress at yield, parallel	14.5	MPa	ISO 527-3
Stress at yield, normal	14.7	MPa	ISO 527-3
Stress at break, parallel	33	MPa	ISO 527-3
Stress at break, normal	26	MPa	ISO 527-3
Maximum strain, parallel	480	%	ISO 527-3
Maximum strain, normal	610	%	ISO 527-3
Dart drop A	30	g	ISO 7765-1

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Film Properties	Value	Unit	Standard
Type of extrusion	cast		
Thickness of specimen	0.02	mm	

Processing Recommendation Extrusion	Value	Unit	Standard
Melt temperature	240 - 280	°C	