

Total Lumicene® mPE M 2710 EP Metallocene Polyethylene, Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , MDPE , Medium Density Polyethylene (MDPE), Film Grade

Material Notes:

Metallocene Medium Density Film Resin Characteristics: Outstanding clarity and gloss
Excellent bubble stability
Excellent tear strength
High puncture resistance
Good stiffness
Excellent heat sealing properties
Excellent compatibility with LDPE and LLDPE
Applications: Clarity shrink films
Food packaging
Laminations
Multilayer packaging film
Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M-2710-EP-Metallocene-Polyethylene-Film.php

Physical Properties	Metric	English	Comments
Density	0.927 g/cc	0.0335 lb/in ³	ISO 1183
Water Vapor Transmission	14.0 g/m ² /day	0.900 g/100 in ² /day	ASTM E96/66
Melt Flow	0.90 g/10 min	0.90 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	580 %	580 %	ASTM D882, A
Film Elongation at Break, TD	720 %	720 %	ASTM D882, A
Coefficient of Friction	0.50	0.50	I/I; Total Method
Elmendorf Tear Strength MD	165 g	165 g	ASTM D1922
Elmendorf Tear Strength TD	500 g	500 g	ASTM D1922
Dart Drop Test	150 g	0.331 lb	ASTM D1709, A
Film Tensile Strength at Break, MD	33.8 MPa	4900 psi	ASTM D882, A
Film Tensile Strength at Break, TD	33.1 MPa	4800 psi	ASTM D882, A
1% Secant Modulus, MD	214 MPa	31000 psi	ASTM D882, A
1% Secant Modulus, TD	172 MPa	25000 psi	ASTM D882, A
Heat Seal Strength Initiation Temperature	112 °C	234 °F	Total Method

Thermal Properties	Metric	English	Comments
Melting Point	121 °C	250 °F	ASTM D3417

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	65 %	65 %	at 45°; ASTM D523

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 210 °C	380 - 410 °F	Extrusion

Descriptive Properties	Value	Comments
Process	Film	
Region	US & Canada	Bamberger Polymers Distribution

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