

Total Lumicene® mPE M 3410 EP Metallocene Medium Density Film Resin (Unverified Data**)

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

Material Notes:

Polyethylene: Metallocene Medium Density Film Resin
 Characteristics: Outstanding clarity and gloss
 Excellent bubble stability
 High Stiffness
 Good puncture resistance
 Good tear strength
 Good heat sealing properties
 Excellent compatibility with LDPE and LLDPE
 Applications: Tissue & towel overwrap films
 Clarity shrink films
 Protective 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-3410-EP-Metallocene-Medium-Density-Film-Resin-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.934 g/cc	0.934 g/cc	ASTM D792
Water Vapor Transmission	10.1 g/m ² /day	0.650 g/100 in ² /day	ASTM E96/66
Thickness	25.4 microns	1.00 mil	
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	400 %	400 %	ASTM D882, A
Film Elongation at Break, TD	650 %	650 %	ASTM D882, A
Coefficient of Friction	0.40	0.40	I/I; TOTAL Method
Elmendorf Tear Strength MD	55 g	55 g	ASTM D1922
Elmendorf Tear Strength TD	400 g	400 g	ASTM D1922
Dart Drop Test	60.0 g	0.132 lb	ASTM D1709, A
Film Tensile Strength at Break, MD	44.1 MPa	6400 psi	ASTM D882, A
Film Tensile Strength at Break, TD	42.1 MPa	6100 psi	ASTM D882, A
1% Secant Modulus, MD	365 MPa	53000 psi	ASTM D882, A
1% Secant Modulus, TD	386 MPa	56000 psi	ASTM D882, A

Mechanical Properties	Metric	English	Comments
Heat Seal Strength Initiation Temperature	120 °C	248 °F	TOTAL Method

Thermal Properties	Metric	English	Comments
Melting Point	124 °C	255 °F	ASTM D3417

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	ASTM D1003
Gloss	65 %	65 %	at 45°; ASTM D523

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

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