

Total Lumicene® mPE M 4707 EP Metallocene Polyethylene, Blown Film

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

Material Notes:

This product is a Total Ecosolutions grade. Lumicene® mPE M 4707 EP is a second generation metallocene based High Density Polyethylene with hexene as comonomer. Lumicene® mPE M 4707 EP can be processed at high output rates with low extrusion pressure, excellent bubble stability and gauge control in comparison with conventional LLDPE and first generation metallocene based polyethylene. The combination of these features brings a significant downgauging potential. Lumicene® mPE M 4707 EP is especially dedicated to film applications where high gloss and high transparency are required, particularly in blend and in coextrusion with LLDPE or LDPE. Lumicene® mPE M 4707 EP is suited for many applications in the field of consumer, industrial, food or hygiene packaging, such as bags, heavy-duty sacks, automatic packaging, mailing film and lamination. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M-4707-EP-Metallocene-Polyethylene-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.947 g/cc	0.947 g/cc	ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	24.0 MPa	3480 psi	ISO 527-3
Film Tensile Strength at Yield, TD	25.0 MPa	3630 psi	ISO 527-3
Film Elongation at Break, MD	610 %	610 %	ISO 527-3
Film Elongation at Break, TD	750 %	750 %	ISO 527-3
Elmendorf Tear Strength, MD	1.00 g/micron	25.4 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	6.10 g/micron	155 g/mil	ISO 6383-2
Dart Drop Test	80.0 g	0.176 lb	ISO 7765-1
Film Tensile Strength at Break, MD	39.0 MPa	5660 psi	ISO 527-3
Film Tensile Strength at Break, TD	38.0 MPa	5510 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	268 °F	ISO 11357

Vicat Softening Point Thermal Properties	130 °C Metric	266 °F English	ISO 306 Comments
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Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ISO 14782
Gloss	50 %	50 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 230 °C	356 - 446 °F	Blow Molding
Melt Temperature	200 °C	392 °F	Extrusion
Die Opening	0.0800 - 0.280 cm	0.0315 - 0.110 in	
Blow-up Ratio (BUR)	1.5 - 4.5	1.5 - 4.5	

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