

Total Lumicene® mPE M 2310 EP Metallocene Polyethylene, Blown Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Film Grade

Material Notes:

Lumicene® mPE M 2310 EP is a second generation metallocene based Linear Low Density Polyethylene with hexene as comonomer. Lumicene® mPE M 2310 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. Lumicene® mPE M 2310 EP is especially dedicated to film applications where superior optical properties in combination with excellent impact resistance (even at low temperature) and sealing strength are required, particularly in blend and coextrusion with LLDPE or LDPE. Lumicene® mPE M 2310 EP is suited for many applications in the field of consumer, industrial, food or hygiene packaging such as bags, deep freeze, collation shrink and lamination. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M-2310-EP-Metallocene-Polyethylene-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.923 g/cc	0.923 g/cc	ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.0 MPa	1740 psi	ISO 527-3
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	ISO 527-3
Film Elongation at Break, MD	650 %	650 %	ISO 527-3
Film Elongation at Break, TD	740 %	740 %	ISO 527-3
Elmendorf Tear Strength, MD	8.20 g/micron	208 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	16.8 g/micron	427 g/mil	ISO 6383-2
Dart Drop Test	310 g	0.684 lb	ISO 7765-1
Film Tensile Strength at Break, MD	59.0 MPa	8560 psi	ISO 527-3
Film Tensile Strength at Break, TD	58.0 MPa	8410 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	116 °C	241 °F	ISO 11357

Vicat Softening Point Thermal Properties	114 °C Metric	237 °F English	ISO 306 Comments
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Optical Properties	Metric	English	Comments
Haze	5.5 %	5.5 %	ISO 14782
Gloss	73 %	73 %	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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