

Total Lumicene® mPE M5510 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 M5510 EP is a second generation metallocene high density homopolymer polyethylene. Lumicene® mPE M5510 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 outstanding stiffness combined with good optical properties brings a significant downgauging potential. The high density of Lumicene® mPE M5510 EP enables its use in applications with moisture barrier requirements, such as dry food packaging, and brings improved heat resistance, compared to commonly used HDPE. Lumicene® mPE M5510 EP is suited for many applications in the field of consumer, industrial, food or hygiene packaging such as bags, heavy-duty sacks, automatic packaging specialty film, mailing film and lamination. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M5510-EP-Metallocene-Polyethylene-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.955 g/cc	0.955 g/cc	ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 190 °C	12 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	27.5 MPa	3990 psi	ISO 527-3
Film Tensile Strength at Yield, TD	28.0 MPa	4060 psi	ISO 527-3
Film Elongation at Break, MD	870 %	870 %	ISO 527-3
Film Elongation at Break, TD	910 %	910 %	ISO 527-3
Elmendorf Tear Strength, MD	1.10 g/micron	27.9 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	9.20 g/micron	234 g/mil	ISO 6383-2
Dart Drop Test	100 g	0.221 lb	ISO 7765-1
Film Tensile Strength at Break, MD	57.0 MPa	8270 psi	ISO 527-3
Film Tensile Strength at Break, TD	45.0 MPa	6530 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	134 °C	273 °F	ISO 11357

Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	24 %	24 %	ISO 14782
Gloss	40 %	40 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	200 - 230 °C	392 - 446 °F	Blow Molding
Melt Temperature	210 °C	410 °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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