

Total Lumicene® mPE M 2735 S01 Metallocene Polyethylene, Cast Film

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

Material Notes:

Lumicene® mPE M 2735 S01 is a Lumicene® metallocene based Polyethylene with hexene as comonomer. Lumicene® mPE M 2735 S01 can be processed at high output rates with low extrusion pressure, low neck-in, excellent drawability and good gauge control. The combination of these features ensures films with outstanding optical properties and excellent impact and tear resistance. Lumicene® mPE M 2735 S01 is suited for many applications in the field of cast film, stretch wrap film (low cling), hygiene film (f.e.. diaper backsheet), lamination and artificial grass. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M-2735-S01-Metallocene-Polyethylene-Cast-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.927 g/cc	0.927 g/cc	ISO 1183
Thickness	20.0 microns	0.787 mil	
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.00 MPa	1310 psi	ISO 527-3
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ISO 527-3
Film Elongation at Break, MD	470 %	470 %	ISO 527-3
Film Elongation at Break, TD	530 %	530 %	ISO 527-3
Elmendorf Tear Strength, MD	5.10 g/micron	130 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	12.2 g/micron	310 g/mil	ISO 6383-2
Dart Drop Test	100 g	0.221 lb	ISO 7765-1
Film Tensile Strength at Break, MD	39.0 MPa	5660 psi	ISO 527-3
Film Tensile Strength at Break, TD	24.0 MPa	3480 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	119 °C	246 °F	ISO 11357
Vicat Softening Point	118 °C	244 °F	ISO 306

Optical Properties	Metric	English	Comments
Haze	1.3 %	1.3 %	ISO 14782
Gloss	89 %	89 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	20.0 - 60.0 °C	68.0 - 140 °F	Chill Roll
Melt Temperature	240 - 280 °C	464 - 536 °F	

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