

Total Lumicene® mPE M 2704 EP S01 Metallocene Polyethylene, Blown Film

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

Material Notes:

This product is a Total Ecosolutions grade. Lumicene® mPE M 2704 EP S01 is a second generation metallocene based Low Density Polyethylene with hexene as comonomer. Lumicene® mPE M 2704 EP S01 can be processed at high output rates with 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 2704 EP S01 is suited for many applications in the field of consumer and industrial packaging, collation and industrial shrink as well as agricultural film. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M-2704-EP-S01-Metallocene-Polyethylene-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.927 g/cc	0.927 g/cc	ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	0.35 g/10 min @Load 2.16 kg, Temperature 190 °C	0.35 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	14.5 MPa	2100 psi	ISO 527-3
Film Tensile Strength at Yield, TD	15.0 MPa	2180 psi	ISO 527-3
Film Elongation at Break, MD	640 %	640 %	ISO 527-3
Film Elongation at Break, TD	710 %	710 %	ISO 527-3
Elmendorf Tear Strength, MD	4.10 g/micron	104 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	15.3 g/micron	389 g/mil	ISO 6383-2
Dart Drop Test	220 g	0.485 lb	ISO 7765-1
Film Tensile Strength at Break, MD	65.0 MPa	9430 psi	ISO 527-3
Film Tensile Strength at Break, TD	57.0 MPa	8270 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	121 °C	250 °F	ISO 11357
Vicat Softening Point	119 °C	246 °F	ISO 306

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ISO 14782
Gloss	65 %	65 %	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	0.120 - 0.280 cm	0.0472 - 0.110 in	
Blow-up Ratio (BUR)	1.5 - 4.5	1.5 - 4.5	

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