

Total Lumicene® mPE M 4040 Metallocene Polyethylene, Cast Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Film Grade

Material Notes:

Lumicene® mPE M 4040 is a Lumicene® metallocene based Polyethylene with hexene as comonomer. Lumicene® mPE M 4040 can be processed at high output rates with low extrusion pressure, low neck-in, excellent drawability and gauge control in comparison with conventional LLDPE and first generation metallocene based polyethylene. The high stiffness combined with excellent optical properties brings a significant downgauging potential. Lumicene® mPE M 4040 is a versatile resin that can be used in pure or in blend for the production of both mono-layer and multilayer film. Main applications are: specialty film, hygiene film, embossed film, compounds and consumer and automatic packaging, such as produce bags, mailing and hygiene overwrap film. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M-4040-Metallocene-Polyethylene-Cast-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	ISO 1183
Thickness	20.0 microns	0.787 mil	
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 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	14.7 MPa	2130 psi	ISO 527-3
Film Elongation at Break, MD	480 %	480 %	ISO 527-3
Film Elongation at Break, TD	610 %	610 %	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	30.0 g	0.0662 lb	ISO 7765-1
Film Tensile Strength at Break, MD	33.0 MPa	4790 psi	ISO 527-3
Film Tensile Strength at Break, TD	26.0 MPa	3770 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	126 °C	259 °F	ISO 11357

Vicat Softening Point Thermal Properties	122 °C Metric	252 °F English	ISO 306 Comments
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Optical Properties	Metric	English	Comments
Haze	5.5 %	5.5 %	ISO 14782
Gloss	86 %	86 %	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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