

Total Lumicene® mPE M6040 S01 Metallocene Polyethylene, Cast Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

Lumicene® mPE M 6040 S01 is a second generation metallocene high density polyethylene. Lumicene® mPE M 6040 S01 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 good optical properties brings a significant down-gauging potential. Lumicene® mPE M 6040 S01 is a versatile resin that can be used in pure or in blend for the production of both monolayer and multilayer film. Typical applications are: specialty film, hygiene film, embossed film, compounds and consumer and automatic packaging, such as produce bags, mailing and overwrap film. The high density of Lumicene® mPE M 6040 S01 enables its use in applications with moisture barrier requirements, such as dry food packaging, and brings improved heat resistance, compared to commonly used HDPE. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lumicene-mPE-M6040-S01-Metallocene-Polyethylene-Cast-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 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	23.0 MPa	3340 psi	ISO 527-3
Film Tensile Strength at Yield, TD	24.0 MPa	3480 psi	ISO 527-3
Film Elongation at Break, MD	520 %	520 %	ISO 527-3
Film Elongation at Break, TD	850 %	850 %	ISO 527-3
Elmendorf Tear Strength, MD	0.800 g/micron	20.3 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	7.10 g/micron	180 g/mil	ISO 6383-2
Dart Drop Test	40.0 g	0.0882 lb	ISO 7765-1
Film Tensile Strength at Break, MD	26.0 MPa	3770 psi	ISO 527-3
Film Tensile Strength at Break, TD	34.0 MPa	4930 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
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Haze	12 %	12 %	ISO 14782
Gloss	51 %	51 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
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Processing Temperature	20.0 - 80.0 °C	68.0 - 176 °F	Chill Roll
Melt Temperature	220 - 280 °C	428 - 536 °F	Extrusion

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