

Polimeri Europa Clearflex® CM 406 Hexene Copolymer Linear Low Density Polyethylene

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

Material Notes:

Clearflex CM 406 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidants, suitable for cast film extrusion. Films manufactured with Clearflex CM 406 are characterized by high clarity, optimum elongation at break and optimum impact and tear resistance. Main Applications: Clearflex CM 406 is recommended for the production of low cling cast film with optimum optical properties and good mechanical resistance. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-CM-406-Hexene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.926 g/cc	0.926 g/cc	ISO 1183
Thickness	8.00 - 50.0 microns	0.315 - 1.97 mil	Recommended
Melt Flow	3.6 g/10 min @Load 2.16 kg, Temperature 190 °C	3.6 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ISO 527-3
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ISO 527-3
Film Elongation at Break, MD	730 %	730 %	ISO 527-3
Film Elongation at Break, TD	850 %	850 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	8.152 g/micron	207.1 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	18.342 g/micron	465.89 g/mil	ISO 6383-2
Dart Drop Test	90.0 g	0.198 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	36.0 MPa	5220 psi	ISO 527-3
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ISO 527-3
1% Secant Modulus, MD	240 MPa	34800 psi	ISO 527-3
1% Secant Modulus, TD	250 MPa	36300 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	103 °C @Load 1.00 kg	217 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ISO 14782
Gloss	85 %	85 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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