

Total LLDPE LL 1810 Linear Low Density Polyethylene - Blown Film

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

Material Notes:

LL 1810 is an ethylene-butene copolymer produced in a gas phase reactor. It is designed for delivering competitive performance in most blown film applications. LL 1810 can be processed at high output rates with moderate extrusion pressure, good bubble stability and gauge control on blown film machine designed for LLDPE. LL 1810 can advantageously be blended with LDPE or other PE resins used in blown film mono extrusion or coextrusion to improve film properties. LL 1810 is suited for many applications in the field of consumer, industrial, food or hygiene packaging such as collation shrink, liners, Form-Fill-Seal, heavy-duty sacks, refuse sacks or other bags and non-packaging applications like agriculture films e.g. tunnel and mulching films. Contains antioxidant. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-LLDPE-LL-1810-Linear-Low-Density-Polyethylene-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.919 g/cc	0.919 g/cc	ISO 1183
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 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	800 %	800 %	ISO 527-3
Film Elongation at Break, TD	850 %	850 %	ISO 527-3
Elmendorf Tear Strength, MD	7.10 g/micron	180 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	12.2 g/micron	310 g/mil	ISO 6383-2
Dart Drop Test	150 g	0.331 lb	ISO 7765-1
Film Tensile Strength at Break, MD	38.0 MPa	5510 psi	ISO 527-3
Film Tensile Strength at Break, TD	33.0 MPa	4790 psi	ISO 527-3
1% Secant Modulus, MD	215 MPa	31200 psi	ISO 178
1% Secant Modulus, TD	245 MPa	35500 psi	ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	ISO 11357-3

Vicat Softening Point Thermal Properties	100 °C Metric	212 °F English	ISO 306 Comments
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Optical Properties	Metric	English	Comments
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Haze	11 %	11 %	ISO 14782
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Gloss	60 %	60 %	at 45°; ASTM D2457
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Processing Properties	Metric	English	Comments
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Processing Temperature	180 - 220 °C	356 - 428 °F	Extrusion Temp
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Die Opening	>= 0.180 cm	>= 0.0709 in	
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Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	
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