

Total Lotrene® Q2018N Linear Low Density Polyethylene, Cast Film

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

Material Notes:

Lotrene® Q2018 Series are Linear Low Density Polyethylene resins produced in a gas phase reactor using butene (C4) co-monomer. They are designed for film applications and can be used in pure form as well as blended with other PE resins, such as LDPE or HDPE and mPE resins for mono extrusion or co-extrusion process to modify film properties. Lotrene® Q2018 Series are suited for many applications in the field of consumer, industrial, food or hygiene packaging such as freezer film, bread bags, shoppers and bags as well as lamination film and multilayer packaging film. Lotrene® Q2018N is a blown film grade and contains thermal stabilizers. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lotrene-Q2018N-Linear-Low-Density-Polyethylene-Cast-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.918 g/cc	0.918 g/cc	ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	0.000 ppm	0.000 ppm	
Slip Level	0.000 ppm	0.000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	850 %	850 %	ASTM D882
Film Elongation at Break, TD	900 %	900 %	ASTM D882
Elmendorf Tear Strength, MD	5.60 g/micron	142 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	10.7 g/micron	272 g/mil	ASTM D1922
Dart Drop Test	130 g	0.287 lb	F50; ASTM D1709
Film Tensile Strength at Break, MD	35.0 MPa	5080 psi	ASTM D882
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	ASTM D882
1% Secant Modulus, MD	215 MPa	31200 psi	ASTM D882
1% Secant Modulus, TD			ASTM D882

Mechanical Properties	245 MPa Metric	35500 psi English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	121 °C	250 °F	Crystalline; ISO 11357
Vicat Softening Point	100 °C	212 °F	ASTM D1525 (A120)
Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ASTM D1003
Gloss	55 %	55 %	at 45°; ASTM D2457
Processing Properties	Metric	English	Comments
Processing Temperature	170 - 210 °C	338 - 410 °F	Extrusion
Melt Temperature	190 °C	374 °F	
Die Opening	>= 0.180 cm	>= 0.0709 in	
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	

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