Total Lotrene® Q1018N Linear Low Density Polyethylene, Blown Film

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

Material Notes:

Lotrene® Q1018 Series are Linear Low Density Polyethylene resins produced in a gas phase reactor using butene (C4) co-monomer. They are designed for blown 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 of co-extrusion process to modify film properties. This grade contains thermal stabilizers.Lotrene® Q1018 Series are suited for many applications in the field of consumer, agricultural, industrial, food or hygiene packaging, for example: collation shrink, liners, FFS bags, heavy duty sacks, refuse, tunnel films, mulching films...Information provided by Total Petrochemicals.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Total-Lotrene-Q1018N-Linear-Low-Density-Polyethylene-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.918 g/cc	0.918 g/cc	ASTM D792
Thickness	40.0 microns	1.57 mil	
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	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	800 %	800 %	ASTM D882
Film Elongation at Break, TD	850 %	850 %	ASTM D882
Elmendorf Tear Strength, MD	7.10 g/micron	180 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	12.2 g/micron	310 g/mil	ASTM D1922
Dart Drop Test	150 g	0.331 lb	F50; ASTM D1709
Film Tensile Strength at Break, MD	38.0 MPa	5510 psi	ASTM D882
Film Tensile Strength at Break, TD	33.0 MPa	4790 psi	ASTM D882
1% Secant Modulus, MD	215 MPa	31200 psi	ASTM D882
1% Secant Modulus, TD	245 MPa	35500 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	Crystalline; ISO 11357
Vicat Softening Point	100 °C	212 °F	ASTM D1525 (A120)

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ASTM D1003
Gloss	60 %	60 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 220 °C	356 - 428 °F	Extrusion
Melt Temperature	200 °C	392 °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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