

Borealis FT5236 Low Density Polyethylene

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

Material Notes:

FT5236 is a Low Density Polyethylene for Film Extrusion. Tubular Technology. Includes anti-block, antioxidant and medium slip additives.

Applications FT5236 has been developed especially for applications like: carrier-bag film, pouches, lamination films, and food packaging. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FT5236-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ISO 1183
Melt Flow	0.75 g/10 min	0.75 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Antiblock Level	800 ppm	800 ppm	synthetic silica; Borealis Method
Slip Level	550 ppm	550 ppm	erucamide; Borealis Method

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	250 %	250 %	ISO 527-3
Film Elongation at Break, TD	550 %	550 %	ISO 527-3
Tensile Modulus	0.230 GPa	33.4 ksi	MD; ASTM D882-A
	0.260 GPa	37.7 ksi	TD; ASTM D882-A
Puncture Energy	2.50 J	1.84 ft-lb	66N; ASTM D5748
Coefficient of Friction	0.20	0.20	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	10.19 g/micron	258.8 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	5.097 g/micron	129.5 g/mil	ISO 6383/2
Dart Drop Test	120 g	0.265 lb	ISO 7765-1
	@Thickness 0.0400 mm	@Thickness 0.00157 in	
Film Tensile Strength at Break, MD	27.0 MPa	3920 psi	ISO 527-3
Film Tensile Strength at Break, TD	24.0 MPa	3480 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	112 °C Metric	234 °F English	ISO 11357-3 Comments
Vicat Softening Point	97.0 °C	207 °F	ISO 306

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
Gloss	85 %	85 %	ASTM D2457

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