

Borealis FA5224 Low Density Polyethylene

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

Material Notes:

FA5224 is a Low Density Polyethylene for Film Extrusion. Contains Antioxidant, Anti-block and Medium Slip additives. This grade is developed to give strong film for medium duty applications. Applications: carrier-bag film, pouches, and general packaging film. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FA5224-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ISO 1183
Melt Flow	1.2 g/10 min @Load 2.16 kg, Temperature 190 °C	1.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
Antiblock Level	850 ppm	850 ppm	talc; Borealis Method
Slip Level	450 ppm	450 ppm	erucamide; Borealis Method

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	300 %	300 %	ISO 527-3
Film Elongation at Break, TD	500 %	500 %	ISO 527-3
Tensile Modulus	0.180 GPa	26.1 ksi	MD/TD; ASTM D882-A
Puncture Energy	2.00 J	1.48 ft-lb	53 N; 40µm sample; ASTM D5748
Coefficient of Friction	0.15	0.15	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	10.19 g/micron	258.8 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	5.096 g/micron	129.4 g/mil	ISO 6383/2
Dart Drop Test	140 g @Thickness 0.0400 mm	0.309 lb @Thickness 0.00157 in	ISO 7765-1
Film Tensile Strength at Break, MD	26.0 MPa	3770 psi	ISO 527-3
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	110 °C	230 °F	ISO 11357-3

Heat Softening Point Thermal Properties	96.0 °C Metric	205 °F English	ISO 305 Comments
Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
Gloss	85 %	85 %	ASTM D2457
Processing Properties	Metric	English	Comments
Melt Temperature	160 - 190 °C	320 - 374 °F	

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