

Borealis FA5223 Low Density Polyethylene

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

Material Notes:

FA5223 is a Low Density Polyethylene for Film Extrusion. Contains antioxidant and antiblock additive. This grade is developed to give strong film for medium duty applications. Applications FA5223 has been developed especially for applications like heavy-duty sacks, food packaging, shrink film, 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-FA5223-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	1.2 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Antiblock Level	850 ppm	850 ppm	talc; 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	0.80	0.80	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	0.309 lb	ISO 7765-1
Film Tensile Strength at Break, MD	26.0 MPa	3770 psi	
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	22mm/min; ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	110 °C	230 °F	ISO 11357-3
Vicat Softening Point	96.0 °C	205 °F	ISO 306

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments ¹³
Gloss	85 %	85 %	ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	160 - 190 °C	320 - 374 °F	

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