

## Borealis FA3227 Low Density Polyethylene

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

### Material Notes:

FA3227 is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Heat and U/V stabilized. This grade is suitable for building construction film and meets the requirements for heat, alkali and UV resistance described in the building standards from the Nordic countries. A 150 micron film based upon FA3227 will last at least four times as long as an unstabilized film of the same thickness.

Applications FA3227 has been developed especially for applications like construction films, heavy-duty sack, shrink film, and liners. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-FA3227-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Borealis-FA3227-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in <sup>3</sup>	ISO 1183
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	400 %	400 %	ISO 527-3
Film Elongation at Break, TD	600 %	600 %	ISO 527-3
Tensile Modulus	0.190 GPa	27.6 ksi	MD/TD; ASTM D882-A
Puncture Energy	5.00 J	3.69 ft-lb	130 N; 125µm sample; ASTM D5748
Coefficient of Friction	0.60	0.60	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	4.077 g/micron	103.6 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	4.89 g/micron	124 g/mil	ISO 6383/2
Dart Drop Test	450 g	0.992 lb	ISO 7765-1
Film Tensile Strength at Break, MD	25.0 MPa @Temperature 24.0 °C	3630 psi @Temperature 75.2 °F	22mm/min; ISO 527-3
Film Tensile Strength at Break, TD	23.0 MPa @Temperature 24.0 °C	3340 psi @Temperature 75.2 °F	22mm/min; ISO 527-3

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

Vicat Softening Point Thermal Properties	96.0 °C Metric	205 °F English	ISO 306 Comments
Processing Properties	Metric	English	Comments
Melt Temperature	170 - 200 °C	338 - 392 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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