

## Borealis FA6220 Low Density Polyethylene

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

### Material Notes:

FA6220 is a Low Density Polyethylene for Film Extrusion. Includes Antioxidant. This grade is developed for the production of thin blown films. Applications: shrink film, pouches, general packaging film, bubble film and foam. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-FA6220-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Borealis-FA6220-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	2.1 g/10 min @Load 2.16 kg, Temperature 190 °C	2.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	350 %	350 %	ISO 527-3
Film Elongation at Break, TD	600 %	600 %	ISO 527-3
Tensile Modulus	0.200 GPa	29.0 ksi	MD; ASTM D882-A
	0.210 GPa	30.5 ksi	TD; ASTM D882-A
Puncture Energy	1.30 J	0.959 ft-lb	50 N; 40µm sample; ASTM D5748
Coefficient of Friction	0.90	0.90	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	12.7 g/micron	323 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	7.65 g/micron	194 g/mil	ISO 6383/2
Dart Drop Test	100 g @Thickness 0.0400 mm	0.221 lb @Thickness 0.00157 in	ISO 7765-1
Film Tensile Strength at Break, MD	26.0 MPa	3770 psi	ISO 527-2
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	111 °C	232 °F	ISO 11357-3
Vicat Softening Point	95.0 °C	203 °F	ISO 306

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	85 %	85 %	ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	150 - 180 °C	302 - 356 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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