

## Borealis FT5231 Low Density Polyethylene

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

### Material Notes:

FT5231 is a Low Density Polyethylene for blown film. Tubular technology. Contains Antioxidant. This grade is developed for the production of packaging film with good optical properties for medium duty film applications. Applications FT5231 has been developed especially for applications like: shrink film, carrier-bag film, lamination films, and food packaging. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-FT5231-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Borealis-FT5231-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in <sup>3</sup>	ISO 1183
Melt Flow	0.75 g/10 min @Load 2.16 kg, Temperature 190 °C	0.75 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

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	0.80	0.80	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	10.19 g/micron	258.8 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	5.097 g/micron	129.5 g/mil	ISO 6383/2
Dart Drop Test	120 g @Thickness 0.0400 mm	0.265 lb @Thickness 0.00157 in	ISO 7765-1
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
Melting Point	112 °C	234 °F	ISO 11357-3
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

## Contact Songhan Plastic Technology Co.,Ltd.

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