

Borealis® FT5230

FT5230 is a Low Density Polyethylene for Film Extrusion. This grade is developed for the production of packaging film with good optical properties for medium duty film applications. Applications: FT5230 has been developed especially for applications like: shrink film, carrier-bag film, pouches, lamination films, and food packaging.

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	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
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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
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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
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Coefficient of Friction, Dynamic	0.80	0.80	ISO 8295
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Elmendorf Tear Strength, MD	10.19 g/micron	258.8 g/mil	ISO 6383/2
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Elmendorf Tear Strength, TD	5.097 g/micron	129.5 g/mil	ISO 6383/2
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Dart Drop Test	120 g	0.265 lb	ISO 7765-1
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Film Tensile Strength at Break, MD	27.0 MPa	3920 psi	ISO 527-3
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Film Tensile Strength at Break, TD	24.0 MPa	3480 psi	ISO 527-3
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Thermal Properties	Metric	English	Comments
Melting Point	112 °C	234 °F	ISO 11357-3

Vicat Softening Point	97.0 °C	207 °F	ISO 306
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Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003

Gloss	85 %	85 %	ASTM D2457
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