

## Borealis Bormed™ TD109CF Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

**Material Notes:**

Bormed™ TD109CF is a propylene alpha olefin copolymer. This grade is suitable for the manufacturing of unoriented films on cast and tubular quench film lines. Applications: lamination films, food packaging, medical applications, sealing layer in coextrusion. Bormed™ TD109CF does not contain slip or antiblock additives. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Bormed-TD109CF-Polypropylene-Copolymer.php](http://www.lookpolymers.com/polymer_Borealis-Bormed-TD109CF-Polypropylene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.900 - 0.910 g/cc	0.0325 - 0.0329 lb/in <sup>3</sup>	ISO 1183
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 230 °C	6.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	400 - 500 %	400 - 500 %	MD/TD; ISO 527-3
Tensile Modulus	0.650 - 0.850 GPa	94.3 - 123 ksi	MD/TD; ISO 527-3
Flexural Modulus	0.700 GPa	102 ksi	ISO 178
Dart Drop, Total Energy	28.0 J	20.7 ft-lb	1050N; ISO 7765-2
Coefficient of Friction	>= 0.70	>= 0.70	film to film; ISO 8295
Film Tensile Strength at Break, MD	45.0 - 55.0 MPa	6530 - 7980 psi	ISO 527-3
Film Tensile Strength at Break, TD	35.0 - 45.0 MPa	5080 - 6530 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	128 - 132 °C	262 - 270 °F	ISO 3146
Vicat Softening Point	114 °C	237 °F	ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 1.3 %	<= 1.3 %	ASTM D1003
Gloss	>= 135 %	>= 135 %	20° of arc; ASTM D2457

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