

Borealis Bormod™ HD905CF Polypropylene Homopolymer for Cast Film

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

Material Notes:

Bormod HD905CF is a high crystallinity homopolymer film resin, based on special Borstar nucleating technology, suitable for the manufacturing of unoriented film on chill roll process. It is recommended to use rather high chill roll temperatures in the range of 40-55°C to obtain the optimum film stiffness. Optical properties will not be deteriorated as with conventional homopolymers at these temperatures. Bormod HD905CF is especially suitable for twist films, labeling films, lamination films, furniture films, decorating films, and textile films. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Bormod-HD905CF-Polypropylene-Homopolymer-for-Cast-Film.php

Physical Properties	Metric	English	Comments
Density	0.900 - 0.910 g/cc	0.0325 - 0.0329 lb/in ³	ISO 1183
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	80 %	80 %	ISO 527-3
Film Elongation at Break, TD	120 %	120 %	ISO 527-3
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Secant Modulus, MD	1.60 GPa	232 ksi	ISO 527-3
Secant Modulus, TD	1.80 GPa	261 ksi	ISO 527-3
Impact	40	40	Dynatest, Damaging Force (N); ISO 7765-2
Impact Test	0.950 J	0.701 ft-lb	Dynatest, Penetration Energy; ISO 7765-2
Coefficient of Friction	0.30 - 0.40	0.30 - 0.40	Film/Film; ISO 8295
Film Tensile Strength at Break, MD	35.0 - 55.0 MPa	5080 - 7980 psi	ISO 527-3
Film Tensile Strength at Break, TD	30.0 - 50.0 MPa	4350 - 7250 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	164 - 170 °C	327 - 338 °F	ISO 3146
Vicat Softening Point	158 °C	316 °F	A (10 N); ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 6.0 %	<= 6.0 %	ASTM D1003
Gloss	>= 90 %	>= 90 %	ASTM D2457

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