

Borealis HD234CF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HD234CF is a homopolymer film resin, suitable for the manufacturing of unoriented film on chill roll process. Applications: HD234CF is recommended for food packaging, lamination films, stationery folders, multi layer co-extrusion films, flower packaging, and technical films. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HD234CF-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 - 0.910 g/cc	0.0325 - 0.0329 lb/in ³	base resin; 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
Antiblock Level	1800 ppm	1800 ppm	SiO ₂ ; Borealis Method
Slip Level	2000 ppm	2000 ppm	EAA; Borealis Method

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 - 700 %	500 - 700 %	ISO 527-3
Film Elongation at Break, TD	500 - 700 %	500 - 700 %	ISO 527-3
Tensile Modulus	0.650 - 0.750 GPa	94.3 - 109 ksi	MD/TD; ISO 527-3
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Dart Drop, Total Energy	14.0 J @Thickness 0.0500 mm	10.3 ft-lb @Thickness 0.00197 in	1100N; ISO 7765-2
Coefficient of Friction	0.20 - 0.30	0.20 - 0.30	film to film; ISO 8295
Film Tensile Strength at Break, MD	30.0 - 50.0 MPa	4350 - 7250 psi	ISO 527-3
Film Tensile Strength at Break, TD	25.0 - 45.0 MPa	3630 - 6530 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	162 - 166 °C	324 - 331 °F	DSC; ISO 3146
Vicat Softening Point	152 °C @Load 1.02 kg	306 °F @Load 2.25 lb	A50; ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 2.0 %	<= 2.0 %	ASTM D1003
Gloss	>= 120 %	>= 120 %	20° of arc; ASTM D2457

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