

Borealis HD204CF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HD204CF is a homopolymer film resin, suitable for the manufacturing of unoriented film on chill roll process. Applications: HD204CF is recommended for medical applications, inner layer in co extrusion, blending, textile packaging film, food packaging, lamination films, stationery folders, manufacturing of unoriented film for producers who wish to add their own slip/antiblock/antistatic additive package, and blending with formulated grades for additive adjustments. HD204CF free of slip and antiblock and without CaStearate. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HD204CF-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

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	ISO 527-3
Flexural Modulus	1.35 GPa	196 ksi	5mm/min; ISO 178
Puncture Energy	14.0 J	10.3 ft-lb	1100N; ISO 7765-2
Coefficient of Friction	>= 0.70	>= 0.70	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 5.10 kg	306 °F @Load 11.2 lb	A50; ISO 306

Optical Properties	Metric	English	Comments
Haze	<= 2.0 %	<= 2.0 %	ASTM D1003

Optical Properties	Metric	English	Comments
Transmittance	95.10 %	95.10 %	20 °C, 0.1 mm, ASTM D2457

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