

Borealis RD461CF Polypropylene Random Copolymer

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

Material Notes:

RD461CF is a random copolymer. This grade is suitable for the manufacturing of unoriented films on chill roll processes. Applications: RD461CF is recommended for food packaging, high quality stationery, lamination films, textile packaging film. Additives: RD461CF contains antistatic additives contains antiblock and slip agents. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-RD461CF-Polypropylene-Random-Copolymer.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
Antiblock Level	1800 ppm	1800 ppm	SiO ₂ ; Borealis Method
Slip Level	1800 ppm	1800 ppm	EAA; Borealis Method

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	550 - 750 %	550 - 750 %	ISO 527-3
Film Elongation at Break, TD	550 - 750 %	550 - 750 %	ISO 527-3
Tensile Modulus	0.500 - 0.600 GPa	72.5 - 87.0 ksi	MD/TD; ISO 527-3
Flexural Modulus	1.00 GPa	145 ksi	ISO 178
Dart Drop, Total Energy	17.0 J @Thickness 0.0500 mm	12.5 ft-lb @Thickness 0.00197 in	1100N; ISO 7765-2
Coefficient of Friction	0.10 - 0.20	0.10 - 0.20	film/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	148 - 154 °C	298 - 309 °F	DSC; ISO 3146
Vicat Softening Point	139 °C @Load 1.02 kg	282 °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

Descriptive Properties	Value	Comments
Antistatic Level (ppm)	< 2000	Borealis Method

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