

Borealis PP RD461CF

Polypropylene Random Copolymer

Borealis AG

Message:

RD461CF is a random copolymer.
This grade is suitable for the manufacturing of unoriented films on chill roll processes.
RD461CF contains antistatic additives contains antiblock and slip agents.

General Information			
Additive	Antiblock (1800 ppm) 2		
	Antistatic (2000 ppm)		
	Slip (1800 ppm) 3		
Features	Random Copolymer		
Uses	Film		
	Food Packaging		
	Laminates		
	Non-oriented Film		
	Packaging		
	Stationary Supplies		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.900 to 0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (23°C, Injection Molded)	1000	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.10 to 0.20		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Puncture Force	1100	N	ISO 7765-2
Tensile Modulus			ISO 527-3
MD	500 to 600	MPa	
TD	500 to 600	MPa	
Tensile Strength			ISO 527-3
MD	30.0 to 50.0	MPa	
TD	25.0 to 45.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break	550 to 750	%	
TD : Break	550 to 750	%	

Instrumented Dart Impact (Total Energy)	17.0	J	ISO 7765-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	139	°C	ISO 306/A50
Melting Temperature (DSC)	148 to 154	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 50.0 µm)	> 120		ASTM D2457
Haze	< 2.0	%	ASTM D1003

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