

Borealis PP HD621CF

Polypropylene Homopolymer

Borealis AG

Message:

HD621CF is a polypropylene homopolymer.
This grade is suitable for the manufacturing of unoriented films on cast and tubular quench film lines.
HD621CF contains antiblock and slip agents.

General Information			
Additive	Antiblock (1500 ppm) 2		
	Slip (1000 ppm) 3		
	Slip (1000 ppm) 4		
Features	Antiblocking		
	Fast Molding Cycle		
	Good Gauge Control		
	Good Processability		
	Heat Sterilizable		
	High Clarity		
	High Gloss		
	High Stiffness		
	Homopolymer		
	Recyclable Material		
	Slip		
Uses	Cast Film		
	Film		
	Food Packaging		
	Laminates		
	Multilayer Film		
	Non-oriented Film		
	Packaging		
Forms	Pellets		
Processing Method	Cast Film		
	Coextruded 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)	1400	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.15 to 0.25		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Puncture Force	1050	N	ISO 7765-2
Tensile Modulus			ISO 527-3
MD	650 to 750	MPa	
TD	650 to 750	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	500 to 700	%	
TD : Break	500 to 700	%	
Instrumented Dart Impact (Total Energy)	13.0	J	ISO 7765-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	154	°C	ISO 306/A50
Melting Temperature (DSC)	162 to 166	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

