



Polypropylene RD234CF

Polypropylene Random Copolymer for Cast Film

Description

RD234CF is a slip and antiblock formulated film resin. It is suitable for the manufacturing of unoriented film on chill roll process.

RD234CF is characterised by:

- High gloss and low haze
- Good heat sealing properties
- Sterilisable
- Good impact resistance
- Easy processing, high output

Applications

RD234CF is suitable for various applications including:

- Food packaging
- High quality stationery
- Lamination film
- Textile packaging
- Medical packaging

Additives

	Typical Value*	Unit	Test Method
Antiblocking Agent	1800 SiO ₂	ppm	internal
Slip Agent	2000 EAA	ppm	internal

Physical Properties

	Typical Value*	Unit	Test Method
Melt Flow Rate (230°C/2.16 kg)	8	g/10 min	ISO 1133
Density	900-910	kg/m ³	ISO 1183
Melting Temperature (DSC)	148-154	°C	ISO 3146
Flexural Modulus	1000	MPa	ISO 178**
Vicat Softening Temperature (10 N)	139	°C	ISO 306**

* Data should not be used for specific work.

** Properties measured on injection moulded specimens, conditioned at 23°C and 50% relative humidity

Borealis A/S

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Film Properties**

		Typical Value*	Unit	Test Method
Tensile strengths	MD	30-50	MPa	ISO 527-3
	TD	25-45	MPa	ISO 527-3
Tensile modulus	MD/TD	500-600	MPa	ISO 527-3
Strain at break	MD/TD	550-750	%	ISO 527-3
COF, Friction (film/film)		0.2-0.3	-	ISO 8295
Gloss (20°)		>120	%	ASTM D2457
Haze		<2	%	ASTM D1003
Dynatest	Damaging Force	~1100	N/mm	ISO 7765-2
	Penetration Energy	~17	J/mm	ISO 7765-2

* Data should not be used for specification work.

** Specific film values evaluated on chill roll films, produced with Borealis internal standard conditions with a thickness of 50 µm. When compared to films which were produced under other conditions. It should be taken into account that the film properties are strongly dependent on the processing conditions

Storage and Handling

RD234CF should be stored in dry conditions at temperatures below 50°C and protected from UV-light.

Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety

RD234CF is not classified as a dangerous preparation.

Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

A Safety Data Sheet is available on request. Please contact your Borealis representative for more details on various aspects of safety, recovery and disposal of the product.



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Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product:

Safety Data Sheet, SDS
Environmental Fact Sheet

Liability statements on:

- Compliance to Food Contact Regulations
- Compliance to Regulations on Medical Uses
- Statement on Heavy Metals

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