



Polypropylene HD905CF

Description

HD905CF is a polypropylene homopolymer

HD905CF is a nucleated, high crystalline film resin. This grade is suitable for the manufacturing of unoriented films on chill roll processes. Optical properties will not deteriorate as with conventional homo- or copolymers at elevated temperatures.

CAS-No. 9003-07-0

Applications

HD905CF is recommended for:

Twist film
Label film
Lamination films

Textile packaging film
Hot fill

Special features

HD905CF is optimised to deliver:

Very high stiffness
Excellent temperature resistance

Excellent planarity
Very good optical properties

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Melt Flow Rate (230 °C/2,16 kg)	6,5 g/10min	ISO 1133
Flexural Modulus ¹	2.250 MPa	ISO 178
Melting temperature (DSC)	167 °C	ISO 11357-3
Charpy Impact Strength, notched (23 °C)	3 kJ/m ²	ISO 179/1eA
Molecular weight distribution	Medium	

¹ Measured on injection moulded specimens, conditioned at 23 °C and 50 % relative humidity.



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Film Properties

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.

Property		Typical Value	Test Method
		Data should not be used for specification work	
Instrumented puncture test	Total Penetration Energy	1 J/mm	ISO 7765-2
Haze		8 %	ASTM D 1003
Gloss at 20 degree (of arc)		65	ASTM D 2457
Tensile Strain at Break	MD	20 %	ISO 527-3
Tensile Strain at Break	TD	4 %	ISO 527-3
Tensile Strength	MD	43 MPa	ISO 527-3
Tensile Strength	TD	44 MPa	ISO 527-3
Tensile Modulus	MD	2.200 MPa	ISO 527-3
Tensile Modulus	TD	2.000 MPa	ISO 527-3
Coefficient of friction (Film/Film)		0,35	ISO 8295

Storage

HD905CF 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.

More information on storage is found in our "Safety data sheet" / "Product safety information sheet".

Safety

The product is not classified as dangerous. Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

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.