

## Technical Data Sheet



# Polypropylene HD601CF

### DESCRIPTION

**HD601CF** is a Homopolymer grade produced by the proprietary **Borstar®** process, suitable for the manufacturing of unoriented films on chill roll process.

**HD601CF** is slip, antiblock and calcium stearate free.

### APPLICATIONS

Metallisable cast film  
Multilayer co-extrusion film  
Textile packaging

Lamination film  
Food packaging  
Stationery film

### SPECIAL FEATURES

Metallisable  
Good optics (low haze and high gloss)  
Excellent gauge control  
Flexibility to add slip / antiblock / antistatic additive package as needed

Good mechanical properties  
Heat sterilisable  
Excellent processability

### PHYSICAL PROPERTIES

| Property  | Typical Value             | Test Method |
|---|---------------------------|-------------|
| -----<br>Data should not be used for specification work |                           |             |
| Density   | 900-910 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2.16 kg)                         | 8 g/10min                 | ISO 1133    |
| Flexural Modulus <sup>1</sup>                           | 1450 MPa                  | ISO 178     |
| Melting Temperature (DSC)                               | 162 - 166°C               | ISO 3146    |
| Vicat softening temperature A50, (10 N) <sup>1</sup>    | 154 °C                    | ISO 306     |

<sup>1</sup> Measured on injection moulded specimens, conditioned at 23°C and 50% relative humidity

### PROCESSING GUIDELINES

The actual conditions will depend on the type of equipment used.

Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borouge representative for such particulars

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## FILM PROPERTIES <sup>1</sup>

| Property                    |       | Typical Value | Test Method    |
|-----------------------------|-------|---------------|----------------|
| -----                       |       |               |                |
| Instrumented Puncture test  |       |               |                |
| Total penetration energy    |       | 12 J/mm       | ISO 7765-2     |
| Force                       |       | 1000 N/mm     | ISO 7765-2     |
| Haze                        |       | <2 %          | ASTM D 1003    |
| Gloss at 20 degree (of arc) |       | >120          | ASTM D 2457    |
| Tensile Strain at Break     | MD/TD | 500 – 700%    | ISO 527-3      |
| Tensile Strength            | MD    | 30-50 MPa     | ISO 527-3      |
| Tensile Strength            | TD    | 25-45 MPa     | ISO 527-3      |
| Tensile Modulus             | MD/TD | 650 – 750 MPa | ISO 527-3      |
| COF (Film / Film)           |       | > 0.7         | ISO 8295       |
| Metal Adhesion (tape test)  |       | Excellent     | Borouge method |

<sup>1</sup> Specific film values evaluated on chill roll films produced with Borouge internal standard conditions with a thickness of 50 µm. When compared to films which are produced under other conditions, it should be taken into account that the film properties are strongly dependent on the processing conditions.

## STORAGE

**HD601CF** 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 can be found in Safety Information Sheet for this product.

## SAFETY

The product is not classified as a hazardous mixture.

Please see our Safety Data Sheet / Safety Information Sheet for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borouge 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.



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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 Information Sheet  
Statement on chemicals, regulations and standards  
Statement on compliance to food contact regulations

### DISCLAIMER

**The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

**Borouge makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.**

**It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.**

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