

# Borealis PP BB213CF

Polypropylene Copolymer

Borealis AG

Message:

BB213CF is a heterophasic copolymer.  
This grade is suitable for the manufacturing of unoriented films on cast and tubular quench film lines.

| General Information                            |                                     |          |             |
|------------------------------------------------|-------------------------------------|----------|-------------|
| Features                                       | Copolymer                           |          |             |
|                                                | Good Heat Seal                      |          |             |
|                                                | Low Temperature Impact Resistance   |          |             |
|                                                | Med.-Wide Molecular Weight Distrib. |          |             |
|                                                | Ultra High Toughness                |          |             |
| Uses                                           | Cast Film                           |          |             |
|                                                | Film                                |          |             |
|                                                | Food Packaging                      |          |             |
|                                                | Laminates                           |          |             |
|                                                | Non-oriented Film                   |          |             |
|                                                | Stationary Supplies                 |          |             |
| Forms                                          | Pellets                             |          |             |
| Processing Method                              | Cast Film                           |          |             |
| Physical                                       | Nominal Value                       | Unit     | Test Method |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)      | 1.2                                 | g/10 min | ISO 1133    |
| Mechanical                                     | Nominal Value                       | Unit     | Test Method |
| Flexural Modulus (23°C, Injection Molded)      | 1100                                | MPa      | ISO 178     |
| Films                                          | Nominal Value                       | Unit     | Test Method |
| Film Thickness - Tested                        | 50                                  | µm       | ISO 527-3   |
| Tensile Modulus                                |                                     |          |             |
| MD : 50 µm                                     | 670                                 | MPa      |             |
| TD : 50 µm                                     | 610                                 | MPa      | ISO 527-3   |
| Tensile Strength                               |                                     |          |             |
| MD : 50 µm                                     | 35.0                                | MPa      |             |
| TD : 50 µm                                     | 65.0                                | MPa      | ISO 527-3   |
| Tensile Elongation                             |                                     |          |             |
| MD : Break, 50 µm                              | 700                                 | %        |             |
| TD : Break, 50 µm                              | 780                                 | %        | ISO 7765-2  |
| Instrumented Dart Impact (50 µm, Total Energy) | 26.0                                | J        |             |

| Impact                         | Nominal Value | Unit              | Test Method |
|--------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength |               |                   | ISO 179/1eA |
| -20°C                          | 2.5           | kJ/m <sup>2</sup> |             |
| 23°C                           | 30            | kJ/m <sup>2</sup> |             |
| Thermal                        | Nominal Value | Unit              | Test Method |
| Melting Temperature            | 166           | °C                | ISO 11357-3 |
| Optical                        | Nominal Value | Unit              | Test Method |
| Gloss (50.0 μm)                | 27            |                   | ASTM D2457  |
| Haze (50.0 μm)                 | 12            | %                 | ASTM D1003  |

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