

# INSPIRE™ 136

Polypropylene Impact Copolymer

Braskem Europe GmbH

## Message:

INSPIRE™ 136 Performance Polymer is a low gel resin developed for the manufacturing of films for quality applications. INSPIRE 136 combines good processability with good stiffness and low gel content. INSPIRE 136 can be used as a blend partner to make more effective films with blown or cast film technology.

Applications for INSPIRE™ 136 Performance Polymer:

blown film

cast film

food packaging

hygiene applications

Complies with:

European Commission Regulation (EU) No 10/2011

U.S. FDA FCN 843

Consult the regulations for complete details.

| General Information                       |                   |                   |              |
|-------------------------------------------|-------------------|-------------------|--------------|
| Agency Ratings                            | FDA FCN 843       |                   |              |
|                                           | Europe No 10/2011 |                   |              |
| Forms                                     | Particle          |                   |              |
| Physical                                  | Nominal Value     | Unit              | Test Method  |
| Density                                   | 0.900             | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 3.5               | g/10 min          | ISO 1133     |
| Mechanical                                | Nominal Value     | Unit              | Test Method  |
| Flexural Modulus (Injection Molded)       | 1150              | MPa               | ISO 178      |
| Films                                     | Nominal Value     | Unit              | Test Method  |
| Film Thickness - Tested                   | 50                | µm                |              |
| Film Puncture Energy (50 µm)              | 3.00              | J                 | ASTM D5748   |
| Film Puncture Force (50 µm)               | 70.0              | N                 | ASTM D5748   |
| Tensile Modulus                           |                   |                   | ISO 527-3    |
| 2% secant, MD: 50 µm, blown film          | 680               | MPa               | ISO 527-3    |
| 2% secant, TD: 50 µm, blown film          | 650               | MPa               | ISO 527-3    |
| Tensile Stress                            |                   |                   | ISO 527-3    |
| MD: Yield, 50 µm, blown film              | 27.0              | MPa               | ISO 527-3    |
| TD: Yield, 50 µm, blown film              | 23.0              | MPa               | ISO 527-3    |
| MD: Broken, 50 µm, blown film             | 35.0              | MPa               | ISO 527-3    |
| TD: Broken, 50 µm, blown film             | 30.0              | MPa               | ISO 527-3    |
| Tensile Elongation                        |                   |                   | ISO 527-3    |
| MD: Broken, 50 µm, blown film             | 610               | %                 | ISO 527-3    |
| TD: Broken, 50 µm, blown film             | 650               | %                 | ISO 527-3    |
| Dart Drop Impact (50 µm, Blown Film)      | 170               | g                 | ISO 7765-1/A |

| Elmendorf Tear Strength                                         |                   |      | ASTM D1922  |
|-----------------------------------------------------------------|-------------------|------|-------------|
| MD: 50 µm, blown film                                           | 27                | g    | ASTM D1922  |
| TD: 50 µm, blown film                                           | 50                | g    | ASTM D1922  |
| Thermal                                                         | Nominal Value     | Unit | Test Method |
| Heat Deflection Temperature <sup>1</sup> (0.45 MPa, Unannealed) | 88.0              | °C   | ISO 75-2/B  |
| Vicat Softening Temperature <sup>2</sup>                        | 151               | °C   | ISO 306/A   |
| Extrusion                                                       | Nominal Value     | Unit |             |
| Melt Temperature                                                | 230               | °C   |             |
| Extrusion instructions                                          |                   |      |             |
| 吹塑薄膜的制造条件:模具间隙:1.0 mm熔体温度:230°C放大比:2.5:1                        |                   |      |             |
| NOTE                                                            |                   |      |             |
| 1.                                                              | Injection Molding |      |             |
| 2.                                                              | Injection Molding |      |             |

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