

# Riblene® FC 30

Low Density Polyethylene

Versalis S.p.A.

## Message:

Riblene FC 30 is a high molecular weight low density polyethylene resin (LDPE) suitable for blown film extrusion. Riblene FC 30 is characterised by a high melt strength leading to a good bubble stability during extrusion.

Films manufactured by Riblene FC 30 are easily heat shrinkable and characterised by optimum mechanical properties.

### Main Application

Riblene FC 30 is recommended for the production of heavy duty shrink film, industrial bags and agricultural film.

| General Information  |  |                   |             |
|--|--|-------------------|-------------|
| Features   | Food Contact Acceptable<br>Good Heat Shrinkability<br>Good Melt Strength<br>High Molecular Weight<br>Low Density |                   |             |
| Uses   | Agricultural Applications<br>Bags<br>Film<br>Industrial Applications<br>Shrink Wrap                              |                   |             |
| Agency Ratings   | EU Food Contact, Unspecified Rating  |                   |             |
| Forms  | Pellets  |                   |             |
| Processing Method  | Blown Film   |                   |             |
| Physical   | Nominal Value  | Unit              | Test Method |
| Density  | 0.922  | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                  | 0.27   | g/10 min          | ISO 1133    |
| Mechanical   | Nominal Value  | Unit              | Test Method |
| Coefficient of Friction (vs. Itself - Dynamic, Blown Film) | > 0.50   |                   | ISO 8295    |
| Films  | Nominal Value  | Unit              | Test Method |
| Film Thickness - Tested                                    | 70   | µm                |             |
| Film Thickness - Recommended / Available                   | 50 to 200 µm   |                   |             |
| Tensile Modulus  |  |                   | ISO 527-3   |
| 1% Secant, MD : 70 µm, Blown Film                          | 160  | MPa               |             |
| 1% Secant, TD : 70 µm, Blown Film                          | 180  | MPa               |             |
| Tensile Stress   |  |                   | ISO 527-3   |
| MD : Yield, 70 µm, Blown Film                              | 10.0   | MPa               |             |
| TD : Yield, 70 µm, Blown Film                              | 10.0   | MPa               |             |

| MD : Break, 70 μm, Blown Film                     | 27.0          | MPa  |                 |
|---|---------------|------|-----------------|
| TD : Break, 70 μm, Blown Film                     | 25.0          | MPa  |                 |
| Tensile Elongation                                |               |      | ISO 527-3       |
| MD : Break, 70 μm, Blown Film                     | 400           | %    |                 |
| TD : Break, 70 μm, Blown Film                     | 600           | %    |                 |
| Dart Drop Impact <sup>1</sup> (70 μm, Blown Film) | 350           | g    | ISO 7765-1      |
| Elmendorf Tear Strength <sup>2</sup>              |               |      | ISO 6383-2      |
| MD : 70.0 μm                                      | 22.0          | kN/m |                 |
| TD : 70.0 μm                                      | 35.0          | kN/m |                 |
| Thermal   | Nominal Value | Unit | Test Method     |
| Brittleness Temperature                           | < -75.0       | °C   | ASTM D746       |
| Vicat Softening Temperature                       | 93.0          | °C   | ISO 306/A       |
| Melting Temperature                               | 112           | °C   | Internal Method |
| Optical   | Nominal Value | Unit | Test Method     |
| Gloss (45°, 70.0 μm, Blown Film)                  | 50            |      | ASTM D2457      |
| Haze (70.0 μm, Blown Film)                        | 12            | %    | ISO 14782       |
| Extrusion   | Nominal Value | Unit |                 |
| Melt Temperature                                  | 180 to 220    | °C   |                 |
| NOTE  |               |      |                 |
| 1.  | F50           |      |                 |
| 2.  | Blown Film    |      |                 |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT