

Petro Rabigh PP FS3011E

Polypropylene Homopolymer
Rabigh Refining & Petrochemical Co.

Message:

FS3011E is a homopolymer polypropylene intended for the extrusion of biaxially oriented film. It is easy to process and suitable for high speed BOPP line. The film made from this resin exhibit excellent transparency, excellent mechanical and barrier properties. It is also suitable for metallization.

Applications

- Food packaging
- Printing lamination
- Adhesive tape
- Cigarette packaging
- Metalized film

| General Information | | | |
|---|--------------------------|-------------------|-------------|
| Features | Electroplating | | |
| | Homopolymer | | |
| | Fast molding cycle | | |
| | Definition, high | | |
| | Barrier resin | | |
| Uses | Bi-axially Oriented Film | | |
| | Packaging | | |
| | Films | | |
| | Laminate | | |
| | Strap | | |
| | Food packaging | | |
| Appearance | Clear/transparent | | |
| Processing Method | Bi-axially Oriented Film | | |
| | Film extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.898 | g/cm ³ | ASTM D792A |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 3.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness | 98 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 32.0 | MPa | ASTM D638 |
| Fracture | 19.0 | MPa | ASTM D638 |
| Tensile Elongation | | | ASTM D638 |
| Yield | 9.0 | % | ASTM D638 |

| | | | |
|---|---------------|-------------------|-------------------------|
| Fracture | 170 | % | ASTM D638 |
| Flexural Modulus | 1270 | MPa | ASTM D790 |
| Flexural Strength | 35.0 | MPa | ASTM D790 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 20 | μm | |
| secant modulus | | | ASTM D882 |
| 1% secant, MD: 20 μm | 2100 | MPa | ASTM D882 |
| 1% secant, TD: 20 μm | 3850 | MPa | ASTM D882 |
| Tensile Strength | | | ASTM D882 |
| MD: Break, 20 μm | 100 | MPa | ASTM D882 |
| TD: Break, 20 μm | 215 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Break, 20 μm | 85 | % | ASTM D882 |
| TD: Break, 20 μm | 15 | % | ASTM D882 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 2.8 | kJ/m ² | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 153 | °C | ASTM D1525 ¹ |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 20.0 μm) | 155 | | ASTM D2457 |
| Haze (20.0 μm) | 0.10 | % | ASTM D1003 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 190 - 250 | °C | |
| Extrusion instructions | | | |
| Stretching Temperature: 130 to 160°C Stretching Ratio MD/TD: 4 to 7 / 7 to 10 | | | |
| NOTE | | | |

1. 压力1 (10N)

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