

# POLYETHYLENE

## FS350A

### Linear Low Density Polyethylene for cast film application

#### Description

FS350A is a linear low density polyethylene resin intended for cast film applications. This resin has good flow characteristics for easy processing. Films made from this resin exhibit excellent transparency, and good toughness properties.

#### Applications

- Hand and pallet stretch wrap film
- Wire and Cable

| Additive Package | Slip Agent | Anti-block |
|------------------|------------|------------|
| FS350A           | no         | no         |

| Resin Properties   | Unit              | Test Method        | Typical Value |
|--------------------|-------------------|--------------------|---------------|
| MFR (190°C/2.16Kg) | g/10min           | ASTM D1238         | 3.1           |
| Density            | g/cm <sup>3</sup> | ASTM D792 Method A | 0.922         |
| Melting Point      | °C                | DSC                | 122           |

| Film Properties*            |    |     |            |     |
|-----------------------------|----|-----|------------|-----|
| Tensile Strength at Break   | MD | MPa | ASTM D882  | 30  |
|                             | TD |     |            | 25  |
| Tensile Elongation at Break | MD | %   | ASTM D882  | 680 |
|                             | TD |     |            | 890 |
| 1% Secant Modulus           | MD | MPa | ASTM D882  | 160 |
|                             | TD |     |            | 160 |
| Elmendorf Tear Strength     | MD | gf  | ASTM D1922 | 80  |
|                             | TD |     |            | 200 |
| Dart Drop Impact            |    | g   | ASTM D1709 | 65  |
| Haze                        |    | %   | ASTM D1003 | 0.7 |
| Gloss 45-degree             |    | --  | ASTM D2457 | 150 |
| Flammability                |    |     | UL94       | HB  |

\* Cast film processing conditions: Extruder Ø55 mm, Die width 600 mm, Die lip gap 1.2 mm, Die temperature 280 °C, Chill roll temperature 30 °C, Output rate 50 kg/h, Take-up speed 75 m/min, Film thickness 20 µm.

**Processing conditions:** Typical processing conditions: 200 - 280 °C.

**Storage and handling:** FS350A should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C. It is advisable to process polyethylene resins within 6 months after delivery.

**Food Contact Compliance and other Regulations:** Please visit Petro Rabigh website.