

ESENTTIA 07R87

Polypropylene Random Copolymer

Polipropileno del Caribe S.A.

Message:

Characteristics: High ethylene control reology Random copolymer polypropylene; high cleanness and lot to lot uniformity; very good optical properties and gauge control; without slip and antiblock additives; ideal for special films formulations; Initial Heat Seal Temperature (IST) below 115 °C on non-treated face.
Recommended for: BOPP, Cast and TWQ Films heat seal co-extruded layer; conventional film properties modifier; injection molding general purpose applications.

| General Information | | | |
|--|------------------------------------|----------|-------------|
| Features | Clean/High Purity | | |
| | Controlled Rheology | | |
| | Food Contact Acceptable | | |
| | General Purpose | | |
| | Good Gauge Control | | |
| | Opticals | | |
| | Random Copolymer | | |
| Uses | Bi-axially Oriented Film | | |
| | Cast Film | | |
| | Film | | |
| | General Purpose | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| | EC 1935/2004 | | |
| | EC 2023/2006 | | |
| | EU 10/2011 | | |
| | FDA 21 CFR 177.1520(a)(3)(i)(c)(1) | | |
| | FDA 21 CFR 177.1520(b) | | |
| | FDA 21 CFR 177.1520(c) 3.1a | | |
| Forms | Pellets | | |
| Processing Method | Cast Film | | |
| | Coextrusion | | |
| | Film Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg) | 7.0 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |

| Tensile Strength ² (Yield, 3.20 mm, Injection Molded) | 20.3 | MPa | ASTM D638 |
|---|--------------------|------|-------------|
| Tensile Elongation ³ (Yield, 3.20 mm, Injection Molded) | 15 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ⁴ (3.20 mm, Injection Molded) | 600 | MPa | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.20 mm, Injection Molded) | 80 | J/m | ASTM D256A |
| Gardner Impact ⁵ (23°C, 3.20 mm, Injection Molded) | 31.1 | J | ASTM D5420 |
| NOTE | | | |
| 1. | Procedure B | | |
| 2. | Type I, 50 mm/min | | |
| 3. | Type I, 50 mm/min | | |
| 4. | Type I, 1.3 mm/min | | |
| 5. | Method A | | |

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