

ESENTTIA 02R01CA-1

Polypropylene Random Copolymer

Polipropileno del Caribe S.A.

Message:

Characteristics: High ethylene Random copolymer polypropylene with very good optical properties; very good impact resistance; with clarify and antistatic additives.
Recommended for: High clarity and very high impact resistance extrusion and injection blow molding containers; high transparency and stiff co-extruded blown films; high clarity general purpose sheet extrusion applications; impact and clarity modifier of homopolymer sheet extrusion and extrusion blow molding containers.

| General Information | |
|---------------------|---|
| Additive | Antistatic Clarifier |
| Features | Antistatic Food Contact Acceptable High Clarity High Impact Resistance High Stiffness Opticals Random Copolymer |
| Uses | Blown Film Containers Sheet |
| 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 | Blown Film Coextrusion Extrusion Blow Molding Injection Blow Molding Sheet Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|--------------------|----------|-------------|
| Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg) | 1.6 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield, 3.20 mm, Injection Molded) | 23.4 | 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) | 772 | MPa | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.20 mm, Injection Molded) | 480 | J/m | ASTM D256A |
| Gardner Impact ⁵ (23°C, 3.20 mm, Injection Molded) | 29.4 | 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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