

CERTENE™ PRM-35C

Polypropylene Random Copolymer

Muehlstein

Message:

PRM-35C is a certified prime grade Clarified Injection Molding copolymer specially designed for thin-walled applications requiring outstanding clarity and good impact resistance. PRM-35C exhibits high flow rate, very good processability, high speed mold filling, fast cycle time, very good dimensional stability, low blooming, and good balance of mechanical properties. PRM-35C typical applications include high quality consumer articles, thin-wall high gloss rigid packaging, and high quality housewares where high clarity is a key requirement. PRM-35C complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1+3.2, and most international regulations concerning the use of Polypropylene in contact with food.

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Features | Good dimensional stability | | |
| | Low blur phenomenon | | |
| | Highlight | | |
| | Impact resistance, good | | |
| | Workability, good | | |
| | Fast molding cycle | | |
| | High liquidity | | |
| | Definition, high | | |
| | Compliance of Food Exposure | | |
| | Random copolymer | | |
| | Medium hardness | | |
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| Uses | Thin wall packaging | | |
| | Household goods | | |
| | Consumer goods application field | | |
| Agency Ratings | FDA 21 CFR 177.1520(a) 3 (i) | | |
| | FDA 21 CFR 177.1520(c) 3.1 | | |
| | FDA 21 CFR 177.1520(c) 3.2 | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 35 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 93 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield, Injection Molded) | 27.9 | MPa | ASTM D638 |

| | | | |
|--|---------------|------|-------------|
| Tensile Elongation ² (Yield, Injection Molded) | 9.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (Injection Molded) | 1020 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, Injection Molded) | 64 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded) | 82.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 134 | °C | ASTM D1525 |

Additional Information

All specimens were injection molded according to ASTM D2146 Type 1.

NOTE

1. 50 mm/min
2. 50 mm/min
3. 1.3 mm/min

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