

C790-90RNA

Natural Polypropylene Impact Copolymer

Safron[®] C790-90RNA Polypropylene Resin is a high performance impact copolymer with a very high melt flow rate. Safron[®] C790-90RNA is designed for thin wall injection moulding, especially multiple cavity moulds with long flow paths and allows for easy processing, short cycle times and good dimensional stability.

Safron[®] C790-90RNA Polypropylene Resin contains an antistatic additive.

Typical Applications

- Food containers
- Yoghurt cups, margarine tubs
- Housewares
- Compounding
- Lids
- Caps and closures

| PROPERTIES ⁽¹⁾ | VALUE | UNIT | TEST METHOD |
|--|-------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate, 230 °C/ 2.16 kg | 90 | g/10min | ISO 1133 |
| Density | 0.9 | g/cm ³ | ISO 1183 |
| Mechanical ⁽²⁾ | | | |
| Hardness Shore D | 60 | Units | ISO 868 |
| Tensile Strength at Yield | 21 | MPa | ISO 527 |
| Elongation at Yield | 5 | % | ISO 527 |
| Flexural Modulus | 1050 | MPa | ISO 178 |
| Thermal ⁽²⁾ | | | |
| Heat Deflection Temperature - HDT B (0.45 MPa) | 75 | °C | ISO 75/B |
| Vicat Softening Point A (10 N) | 146 | °C | ISO 306/B |
| Impact ⁽²⁾ | | | |
| Charpy Notched Impact Strength (23 °C) | 6.0 | kJ/m ² | ISO 179 |
| Charpy Notched Impact Strength (0 °C) | 5.0 | kJ/m ² | ISO 179 |
| Charpy Notched Impact Strength (-20 °C) | 4.2 | kJ/m ² | ISO 179 |

(1) Typical values; not to be construed as specification limits.

(2) Injection Moulded specimens.

| Typical processing conditions | Injection Moulding |
|-------------------------------|--------------------|
| Zone 1 (°C) | 190 |
| Zone 2 (°C) | 220 - 240 |
| Zone 3 (°C) | 240 - 260 |
| Zone 4 (°C) | 260 |
| Nozzle (°C) | 240 |

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| Food Contact Compliance | <p>Safron® C790-90RNA Polypropylene Resin should comply with Commission Regulation (EU) No 10/2011 and with U.S. FDA 21 CFR 177.1520(c)3.1a food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. The purchaser remains responsible for determining whether the use complies with all relevant regulations.</p> |
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Additional Information

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