

H510-02

Natural Polypropylene Homopolymer

Safron[®] H510-02 Polypropylene Resin is suitable for extrusion, general purpose injection and blow moulding. It offers good processability and low water carry-over, as required when water baths are used during processing.

Safron[®] H510-02 Polypropylene Resin offers good tenacity and low fibrillation.

Typical Applications

- Integral hinged closures
- Stretched tapes for carpet backing and woven products
- Monofilaments
- Strapping

| PROPERTIES ⁽¹⁾ | VALUE | UNIT | TEST METHOD |
|--|-------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate, 230 °C/ 2.16 kg | 2.0 | g/10min | ISO 1133 |
| Density | 0.9 | g/cm ³ | ISO 1183 |
| Mechanical ⁽²⁾ | | | |
| Tensile Strength at Yield | 31 | MPa | ISO 527 |
| Elongation at Yield | 8.5 | % | ISO 527 |
| Flexural Modulus | 1360 | MPa | ISO 178 |
| Thermal ⁽²⁾ | | | |
| Heat Deflection Temperature - HDT A (1.8 MPa) | 53 | °C | ISO 75/A |
| Heat Deflection Temperature - HDT B (0.45 MPa) | 85 | °C | ISO 75/B |
| Vicat Softening Point B (50 N) | 90 | °C | ISO 306/B |
| Impact ⁽²⁾ | | | |
| Charpy Notched Impact Strength (23 °C) | 6.8 | kJ/m ² | ISO 179 |

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

(2) Injection Moulded specimens.

| Typical processing conditions | Injection Moulding | Blow Moulding | Extrusion |
|-------------------------------|--------------------|---------------|-----------|
| Zone 1 (°C) | 190 | 180 - 200 | 190 |
| Zone 2 (°C) | 220 - 230 | 210 - 230 | 215 |
| Zone 3 (°C) | 240 - 250 | 230 - 250 | 240 |
| Zone 4 (°C) | 245 | 220 - 240 | 250 |
| Nozzle (°C) | 240 | ~ | ~ |
| Die (°C) | ~ | 220 | 245 |

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| Food Contact Compliance | <p>Safron[®] H510-02 Polypropylene Resin should comply with Commission Regulation (EU) No 10/2011 and with U.S. FDA 21 CFR 177.1520(c)1.1a 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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