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HIGH PERFORMANCE HOMOPOLYMERS

# Marlex® HGX-030SP

Polypropylene Homopolymer, Raffia Grade

**Typical raffia, fiber/yarn applications include:**

- Woven industrial fabric and bag
- Rope and cordage
- Woven carpet backing
- Woven geotextile fabrics
- Large parts
- Good resistance to gas fading

**This resin meets these specifications:**

- FDA 21 CFR 177.1520(c)1.1. May be used in contact with all types of foods at conditions of use A through H per 21 CFR 176.170(c).
- All constituents of this resin are listed in Commission Regulation (EU) No 10/2011. Meets the requirements of Commission Regulation (EU) No 10/2011, Regulation (EC) No. 1935/2004, and Commission Regulation (EC) No 2023/2006.

**For a Material Safety Data Sheet (MSDS), visit our site at www.saudipolymers.com**

| Nominal Resin Properties[1,2] | Value (SI Units) | Method |
|---|---|---|
| **Density** | 0.906 g/cm$^3$ | ASTM D1505 |
| **Melt Flow Rate,** Condition 230 °C/2.16 kg | 3 g/10 min | ASTM D1238 |
| **Tensile Strength at Yield,** 50.8 mm/min | 37 MPa | ASTM D638 |
| **Flexural Modulus, Secant,** 1.3 mm/min | 1590 MPa | ASTM D790 |
| **Notched Izod Impact,** @23°C | 31 J/m | ASTM D256 |
| **Durometer Hardness,** Type D (Shore D) | 70 | ASTM D2240 |
| **Heat Deflection Temperature,** @ 0.46 MPa | 101°C | ASTM D648 |

1. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded.
2. Mechanical properties were determined using injection-moulded specimens 3.2 mm thick, moulded per ASTM D4101, unless otherwise noted.

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HIGH PERFORMANCE HOMOPOLYMERS

# Marlex® HLS-080SP

Polypropylene Homopolymer, Slip and Antiblock

**Typical quenched blown or cast film extrusion applications include:**

- Soft goods
- Stationery
- Bakery goods
- Candy

**This resin meets these specifications:**

- Monomer and additives meet U.S. FDA's requirements.
- All constituents of this resin are listed in Commission Regulation (EU) No 10/2011. This resin doesn't carry any SML.

**For a Material Safety Data Sheet (MSDS), visit our site at www.saudipolymers.com**

| Nominal Resin Properties[1,2] | Value (SI Units) | Method |
|---|---|---|
| **Density** | 0.904 g/cm$^3$ | ASTM D1505 |
| **Melt Flow Rate,** Condition 230°C/2.16 kg | 8 g/10 min | ASTM D1238 |
| **Tensile Strength at Yield,** 50.8 mm/min | 37 MPa | ASTM D638 |
| **Flexural Modulus, Secant,** 1.3 mm/min | 1690 MPa | ASTM D790 |
| **Notched Izod Impact,** @23°C | 29 | ASTM D256 |
| **Durometer Hardness,** Type D (Shore D) | 70 | ASTM D2240 |
| **Heat Deflection Temperature,** 0.46 MPa | 100°C | ASTM D648 |
| Slip and Anti-block levels | Value | |
| **Anti-block** | 2000 ppm | |
| **Slip** | 1000 ppm | |

1. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded.
2. Mechanical properties were determined using injection-moulded specimens 3.2 mm thick, moulded per ASTM D4101, unless otherwise noted.

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HIGH PERFORMANCE HOMOPOLYMERS

# Marlex® HGZ-120SP

Polypropylene Homopolymer, General purpose

**Typical raffia, fiber/yarn, injection moulding applications include:**

- General purpose injection moulding
- Multifilament fiber
- Good resistance to gas fading

**This resin meets these specifications:**

- Monomer and additives meet U.S. FDA's requirements.
- All constituents of this resin are listed in Commission Regulation (EU) No 10/2011.

**For a Material Safety Data Sheet (MSDS), visit our site at www.saudipolymers.com**

| Nominal Resin Properties[1,2] | Value (SI Units) | Method |
|---|---|---|
| **Density** | 0.903 g/cm$^3$ | ASTM D1505 |
| **Melt Flow Rate,** Condition 230°C/2.16 kg | 12 g/10 min | ASTM D1238 |
| **Tensile Strength at Yield,** 50.8 mm/min | 37 MPa | ASTM D638 |
| **Flexural Modulus, Secant,** 1.3 mm/min | 1860 MPa | ASTM D790 |
| **Notched Izod Impact,** @23°C | 27 J/m | ASTM D256 |
| **Durometer Hardness,** Type D (Shore D) | 71 | ASTM D2240 |
| **Heat Deflection Temperature,** @ 0.46 MPa | 104°C | ASTM D648 |

1. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded.
2. Mechanical properties were determined using injection-moulded specimens 3.2 mm thick, moulded per ASTM D4101, unless otherwise noted.

Revision Date February 2012

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HIGH PERFORMANCE HOMOPOLYMERS

# Marlex® HGZ-350SP

Polypropylene Homopolymer, Injection Moulding Grade, Controlled Rheology

**Typical injection moulding applications include:**

- Thin wall containers
- Toys
- Hospital ware
- Good resistance to gas fading

**This resin meets these specifications:**

- Monomer and additives meet U.S. FDA's requirements.
- All constituents of this resin are listed in Commission Regulation (EU) No 10/2011.

**For a Material Safety Data Sheet (MSDS), visit our site at www.saudipolymers.com**

| Nominal Resin Properties[1,2] | Value (SI Units) | Method |
|---|---|---|
| **Density** | 0.903 g/cm$^3$ | ASTM D1505 |
| **Melt Flow Rate,** Condition 230°C/2.16 kg | 35 g/10 min | ASTM D1238 |
| **Tensile Strength at Yield,** 50.8 mm/min | 40 MPa | ASTM D638 |
| **Flexural Modulus, Secant,** 1.3 mm/min | 1790 MPa | ASTM D790 |
| **Notched Izod Impact,** @23°C | 21 J/m | ASTM D256 |
| **Durometer Hardness,** Type D (Shore D) | 71 | ASTM D2240 |
| **Heat Deflection Temperature,** @ 0.46 MPa | 113°C | ASTM D648 |

1. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded.
2. Mechanical properties were determined using injection-moulded specimens 3.2 mm thick, moulded per ASTM D4101, unless otherwise noted.

Revision Date February 2012

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HIGH PERFORMANCE HOMOPOLYMERS

# Marlex® SMX-360SP

Polypropylene Homopolymer, Nonwoven Fibers, Extrusion Coating, Controlled Rheology

**Typical raffia, fiber/yarn applications include:**

- Non-woven spunbond fabrics
- Very fine denier multifilament fiber
- Extrusion coating
- Good resistance to gas fading

**This resin meets these specifications:**

- Monomer and additives meet U.S. FDA's requirements.
- All constituents of this resin are listed in Commission Regulation (EU) No 10/2011.

**For a Material Safety Data Sheet (MSDS), visit our site at www.saudipolymers.com**

| Nominal Resin Properties[1,2] | Value (SI Units) | Method |
|---|---|---|
| **Density** | 0.903 g/cm$^3$ | ASTM D1505 |
| **Melt Flow Rate,** Condition 230°C/2.16 kg | 35 g/10 min | ASTM D1238 |
| **Tensile Strength at Yield,** 50.8 mm/min | 34 MPa | ASTM D638 |
| **Flexural Modulus, Secant,** 1.3 mm/min | 1310 MPa | ASTM D790 |
| **Notched Izod Impact,** @23°C | 21 J/m | ASTM D256 |
| **Durometer Hardness,** Type D (Shore D) | 71 | ASTM D2240 |
| **Heat Deflection Temperature,** @ 0.46 MPa | 93°C | ASTM D648 |

1. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded.
2. Mechanical properties were determined using injection-moulded specimens 3.2 mm thick, moulded per ASTM D4101, unless otherwise noted.

Revision Date February 2012