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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.

Revision Date May 2013



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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

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2. Mechanical properties were determined using injection-moulded specimens 3.2 mm thick, moulded per ASTM D4101, unless otherwise noted.

Revision Date November 2012



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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

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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

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