

# Safron® H510-02

Polypropylene Homopolymer

Safrinol (PTY) LTD

## Message:

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

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

General Information			
Features	Homopolymer		
	Workability, good		
	Compliance of Food Exposure		
	Low water portability		
Uses	Strap		
	monofilament		
	Carpet backing		
	Belt material		
	Shell		
	Fiber		
Agency Ratings	FDA 21 CFR 177.1520(c) 1.1a		
	Europe 10/1/2011 12:00:00 AM		
Appearance	Natural color		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, Injection Molded)	31.0	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	8.5	%	ISO 527-2
Flexural Modulus (Injection Molded)	1360	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	6.8	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature <sup>1</sup>			
0.45 MPa, not annealed	85.0	°C	ISO 75-2/B
1.8 MPa, not annealed	53.0	°C	ISO 75-2/A
Vicat Softening Temperature <sup>2</sup>	90.0	°C	ISO 306/B

#### Additional Information

Blow Molding conditions:

Zone 1: 180 to 200°C

Zone 2: 210 to 230°C

Zone 3: 230 to 250°C

Zone 4: 220 to 240°C

Die: 220°C

Injection	Nominal Value	Unit
Rear Temperature	190	°C
Middle Temperature	220 - 230	°C
Front Temperature	240 - 250	°C
Nozzle Temperature	240	°C

#### Injection instructions

Zone 4 Temperature: 245°C

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	190	°C
Cylinder Zone 2 Temp.	215	°C
Cylinder Zone 3 Temp.	240	°C
Cylinder Zone 4 Temp.	250	°C
Die Temperature	245	°C

#### NOTE

1. Injection Molded
2. Injection Molded

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#### Recommended distributors for this material

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