

# Safron® H712-52RNM

Polypropylene Homopolymer

Safrinol (PTY) LTD

Message:

Safron® H712-52RNM Polypropylene Resin is a nucleated homopolymer for thin wall, high speed injection moulding combining a good balance of physical properties with easy processability. It is produced by controlled rheology, has a narrow molecular weight distribution and produces parts with minimal distortion.

Safron® H712-52RNM Polypropylene Resin is also suitable for extrusion coating and lamination.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	Low warpage		
	Homopolymer		
	Workability, good		
	Controlled rheology		
	Fast molding cycle		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
Uses	Cosmetic Packaging		
	Thin wall packaging		
	Laminate		
	Electrical appliances		
	Shield		
	Household goods		
	Business equipment		
	Coating application		
	Shell		
Agency Ratings	FDA 21 CFR 177.1520(c) 1.1a		
	Europe 10/1/2011 12:00:00 AM		
Processing Method	Lamination method		
	Extrusion coating		
	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)	50	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, Injection Molded)	32.0	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	8.5	%	ISO 527-2
Flexural Modulus (Injection Molded)	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	2.3	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	100	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature <sup>2</sup>	84.0	°C	ISO 306/B
Injection	Nominal Value	Unit	
Rear Temperature	190	°C	
Middle Temperature	220 - 240	°C	
Front Temperature	220 - 260	°C	
Nozzle Temperature	240	°C	
Injection instructions			
Zone 4 Temperature: 260°C			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 200	°C	
Cylinder Zone 2 Temp.	200 - 250	°C	
Cylinder Zone 3 Temp.	250 - 270	°C	
Cylinder Zone 4 Temp.	270	°C	
Die Temperature	220 - 240	°C	
NOTE			
1.	Injection Molded		
2.	Injection Molded		

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#### Recommended distributors for this material

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