

Safron® R701-40RNA

Polypropylene Random Copolymer

Safripol (PTY) LTD

Message:

Safron® R701-40RNA Polypropylene Resin is a random copolymer developed for thin wall injection moulding applications. It is a controlled rheology grade characterized by excellent clarity and a good balance of stiffness and impact strength at ambient temperatures. Safron® R701-40RNA Polypropylene Resin contains an antistatic additive.

General Information			
Additive	Antistatic property		
Features	Rigid, good		
	Antistatic property		
	Impact resistance, good		
	Controlled rheology		
	Definition, high		
	Compliance of Food Exposure		
	Random copolymer		
Uses	Packaging		
	Thin wall packaging		
	Food container		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	European 2002/72/EC		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, Injection Molded)	28.0	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	12	%	ISO 527-2
Flexural Modulus (Injection Molded)	900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
0°C, injection molding	2.0	kJ/m ²	ISO 179
23°C, injection molding	4.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	71.0	°C	ISO 75-2/B

1.8 MPa, not annealed	44.0	°C	ISO 75-2/A
Vicat Softening Temperature	129	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Transmittance (Injection Molded)	85.0	%	ASTM D1003
Haze (Injection Molded)	10	%	ASTM D1003
Injection	Nominal Value	Unit	
Rear Temperature	180 - 200	°C	
Middle Temperature	220 - 230	°C	
Front Temperature	240 - 250	°C	
Nozzle Temperature	230	°C	
Injection instructions			
Zone 4 Temperature: 245°C			

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