

# Moplen RP344RN

Polypropylene Random Copolymer

PolyMirae

## Message:

Moplen RP344RN is a nucleated polypropylene random copolymer manufactured by PMC under the license of BASSELL using the Spheripol process. Moplen RP344RN is a random copolymer particularly suitable for injection molding of houseware, thin walled articles for food and non food applications, caps and lids  
Moplen RP344RN meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
UL YellowCard	E215205-500441		
Additive	Nucleating Agent		
Features	High Clarity		
	High Gloss		
	Nucleated		
Uses	Caps		
	Household Goods		
	Lids		
	Thin-walled Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	29.4	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	8.0	%	ASTM D638
Flexural Modulus (Injection Molded)	1230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	20	J/m	
23°C, Injection Molded	49	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	95.0	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze (Injection Molded)	16	%	ASTM D1003

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