

Moplen RP344R

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP344R is a nucleated polypropylene random copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen RP344R is a random copolymer particularly suitable for injection molding of houseware, thin walled articles for food and non food applications, caps and lids

Moplen RP344R meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Flow		
	High Gloss		
	Low to No Odor		
	Nucleated		
Uses	Random Copolymer		
	Caps		
	Household Goods		
	Lids		
	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	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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