

Moplen RP344N

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP344N is the polypropylene random copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen RP344N is a random copolymer particularly suitable for injection molding of houseware.
Moplen RP344N meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
UL YellowCard	E215205-500441		
Features	Food Contact Acceptable		
	Good Colorability		
	High Gloss		
	Nucleated		
	Random Copolymer		
Uses	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	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	29.4	MPa	ASTM D638
Yield, 23°C	26.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	13	%	ASTM D638
Yield, 23°C	13	%	ISO 527-2/50
Flexural Modulus			
--	1180	MPa	ASTM D790

--	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	3.5	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	110	kJ/m ²	
23°C	220	kJ/m ²	
Notched Izod Impact			ASTM D256
-20°C	20	J/m	
23°C	49	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	90.0	°C	ASTM D648
0.45 MPa, Unannealed	74.0	°C	ISO 75-2/B

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