

# Moplen RP344NK

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP344NK is a nucleated polypropylene random copolymer manufactured by PolyMirae using Spheripol process technology licensed from LyondellBasell.

Moplen RP344NK is specially designed for good processability, excellent clarity, and good hinge property in low processing temperature with balanced mechanical properties.

Moplen RP344NK is a random copolymer particularly suitable for injection molding of transparency container, houseware, food container, bottles(IBM/ISBM), caps and lids.

Moplen RP344NK meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact.

Product Features

Good processability and excellent clarity in low processing temperature/High productivity with shorter cycle time than conventional random PP/Good hinge property/Less bubbles(Voids) in final products/High gloss/Good mechanical property balance/Low odor and low taste transfer

Typical Applications

Transparency container, Houseware, Food container, Bottles(IBM/ISBM), Caps and lids, etc

General Information			
UL YellowCard	E215205-500441		
Additive	Nucleating Agent		
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	High Gloss		
	Low Odor Transfer		
	Low Taste Transfer		
	Nucleated		
Uses	Random Copolymer		
	Bottles		
	Caps		
	Containers		
	Food Containers		
	Household Goods		
Agency Ratings	Lids		
	FDA 21 CFR 177.1520		
	Clear/Transparent		
	Pellets		
	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)	13	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)	29.4	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze	14	%	ASTM D1003

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