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

UL YellowCard E215205-500441 Additive Nucleating Agent Features Fast Molding Cycle Food Contact Acceptable Good Processability High Clarity High Gloss Low Odor Transfer Low Odor Transfer Nucleated Random Copolymer Uses Bottles Caps Containers Food Containers Household Goods Lids Lids Agency Ratings FDA 21 CFR 177.1520 Appearance Clear/Transparent Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Open of creat ASTM D1505	General Information			
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Appearance Clear/Transparent Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method				
Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method	Agency Ratings	FDA 21 CFR 177.1520		
Processing Method Injection Molding Physical Nominal Value Unit Test Method	Appearance	Clear/Transparent		
Physical Nominal Value Unit Test Method	Forms	Pellets		
	Processing Method	Injection Molding		
Density 0.900 a/cm ³ ASTM D1505	Physical	Nominal Value	Unit	Test Method
	Density	0.900	g/cm ³	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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