Moplen RP344RK

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP344RK is a nucleated polypropylene random copolymer manufactured by PolyMirae using Spheripol process technology licensed from LyondellBasell.
Moplen RP344RK is specially designed for good processability and excellent clarity in low processing temperature with balanced mechanical properties.
Moplen RP344RK is a random copolymer particularly suitable for injection molding of transparency container,
houseware, thin walled articles for food and non food applications, stationery, caps and lids.
Moplen RP344RK 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/Less bubbles(Voids) in final products/High gloss/Good mechanical property balance/Low odor and low taste transfer/Good color
Typical Applications
Transparency container, Houseware, Food container, TWIM, Stationery, 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 Random Copolymer		
Uses	Bottles Caps Containers Food Containers Household Goods Lids Stationary Supplies Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**

Density	0.900	g/cm³	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)	29.4	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	1230	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)	95.0	°C	ASTM D648
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze	16	%	ASTM D1003

Recommended distributors for this material

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