

Moplen RP348NK

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP348NK is a nucleated polypropylene random copolymer manufactured by PolyMirae using Spheripol process technology licensed from LyondellBasell.

Moplen RP348NK is specially designed for good processability and excellent clarity in low processing temperature with balanced mechanical properties. Moplen RP348NK is a random copolymer particularly suitable for injection molding of transparency containers and boxes of small size, houseware, food container, bottles(IBM/ISBM), caps and lids.

Moplen RP348NK 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

Typical Applications

Transparency containers and boxes of small size, Houseware, Food container, Bottles(IBM/ISBM), Caps and lids, etc

General Information			
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		
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/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (R-Scale)	93		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.4	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	1050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	86.0	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze	15	%	ASTM D1003

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