Moplen RP5058

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP5058 is a nucleated polypropylene random copolymer manufactured by PolyMirae using Spheripol process technology licensed from LyondellBasell.
Moplen RP5058 is specially designed for good processability and excellent clarity in low processing temperature with balanced mechanical properties.
Moplen RP5058 is a random copolymer particularly suitable for injection molding of transparency container, houseware, thin walled articles for food and non food applications, caps and lids.
Moplen RP5058 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 container, Houseware, Food container, TWIM, 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 Household Goods Lids 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

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