

RANPELEN J-560M

Polypropylene Random Copolymer
Lotte Chemical Corporation

Message:

J-560M is a nucleated random copolymer for injection molding applications. This grade is designed to be processed in conventional injection molding equipment and offers super high transparency, good stiffness/impact strength balance, high gloss, high hinge property and low smell. In particular, J-560M is suitable for medical application demanded gamma-ray sterilization. This grade satisfied the standard of USP Class VI and FDA. (FDA DMF Number: 27050)

General Information			
Additive	Nucleating Agent		
Features	Good Impact Resistance		
	Good Stiffness		
	High Clarity		
	High Gloss		
	Low to No Odor		
	Nucleated		
	Radiation (Gamma) Resistant		
	Radiation Sterilizable		
	Random Copolymer		
Uses	Food Containers		
	Medical/Healthcare Applications		
	Stationary Supplies		
Agency Ratings	DMF 27050		
	USP Class VI		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	29.4	MPa	ASTM D638
Yield	26.5	MPa	ISO 527-2
Tensile Elongation (Break)	> 100	%	ASTM D638, ISO 527-2
Flexural Modulus			

--	1180	MPa	ASTM D790
--	971	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-10°C	25	J/m	ISO 180
-10°C	29	J/m	ASTM D256
23°C	54	J/m	ASTM D256
23°C	49	J/m	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	95.0	°C	ASTM D648
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B
Optical	Nominal Value	Unit	Test Method
Haze	20	%	ASTM D1003

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