

Moplen RP5005

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP5005 is a natural, nucleated polypropylene random copolymer with high melt viscosity for extrusion. The product has a high heat and extraction stability.

It is not intended for medical and pharmaceutical applications.

Moplen RP5005 resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

This is a developmental grade, changes in formulation and specification are possible. The information is valid at the time of writing. We suggest customers to check and confirm with us the most updated statements from time to time.

General Information			
Features	Extraction Resistant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Processability		
	High Heat Resistance		
	High Impact Resistance		
	High Stiffness		
	High Viscosity		
	Nucleated		
Uses	Industrial Applications		
	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Natural Color		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
230°C/2.16 kg	0.30	g/10 min	
230°C/5.0 kg	1.3	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	800	MPa	ISO 527-2
Tensile Strength			
Yield, Injection Molded	26.5	MPa	ASTM D638
Yield, Injection Molded	24.0	MPa	ISO 527-2
Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638, ISO 527-2
Flexural Modulus (Injection Molded)	834	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, Injection Molded	45	kJ/m ²	
0°C, Injection Molded	No Break		
23°C, Injection Molded	No Break		
Notched Izod Impact (23°C, Injection Molded)			ASTM D256
	230	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	83.0	°C	ASTM D648
0.45 MPa, Unannealed	65.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	123	°C	ASTM D1525
--	125	°C	ISO 306

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