

Moplen RP5050

Polypropylene Random Copolymer

PolyMirae

Message:

"Moplen" RP5050 is a controlled rheology slightly propylene random copolymer for manufacturing high transparent cast films. It contains no slip or antiblocking agents. It offers excellent processability, high clarity and gloss and good heat weldability. Main applications are packaging of foodstuffs, packaging of books and stationary. "Moplen" RP5050 is suitable for food contact.

General Information			
Features	Controlled Rheology		
	Good Processability		
	High Clarity		
	High Gloss		
	Random Copolymer		
	Weldable		
Uses	Cast Film		
	Food Packaging		
	Packaging		
	Stationary Supplies		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	23.5	MPa	ASTM D638
Tensile Elongation (Yield)	11	%	ASTM D638
Flexural Modulus			
--	755	MPa	ASTM D790
--	750	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	0.40	kJ/m ²	
23°C	3.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	120	kJ/m ²	

23°C	No Break		
Notched Izod Impact	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	130	°C	ISO 306/A50

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