

# Moplen RP5051

Polypropylene Random Copolymer

PolyMirae

## Message:

"Moplen" RP5051 is a controlled rheology slightly propylene random copolymer for manufacturing high transparent cast films. The product contains slip- and antiblock agents. It exhibits very good optical properties and good heat weldability. Main applications are packaging of foodstuffs such as sweets, pasta, biscuits and snacks, packaging of books, stationary, blankets, shirts and hosiery. "Moplen" RP5051 is suitable for food contact.

General Information			
Additive	Antiblock		
	Slip		
Features	Antiblocking		
	Controlled Rheology		
	High Clarity		
	Opticals		
	Random Copolymer		
	Slip		
Uses	Weldable		
	Cast Film		
	Food Packaging		
	Packaging		
Appearance	Stationary Supplies		
	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	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)	24.5	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus			
--	785	MPa	ASTM D790
--	780	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

0°C	0.40	kJ/m <sup>2</sup>	
23°C	3.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength		ISO 179/1eU	
0°C	130	kJ/m <sup>2</sup>	
23°C	No Break		
Notched Izod Impact (23°C)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	130	°C	ISO 306/A50

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#### Recommended distributors for this material

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