

# Moplen HP521M

Polypropylene Homopolymer

PolyMirae

Message:

Moplen HP521M is the polypropylene homopolymer manufactured by PMC under the license of BASELL using the Spheripol process.  
Moplen HP521M is suitable for core resin of co-extrusion CPP film.  
Moplen HP521M resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Features	Food Contact Acceptable		
	General Purpose		
	Good Processability		
	Good Stiffness		
	Homopolymer		
	Opticals		
Uses	Film		
	Food Packaging		
	General Purpose		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	35.3	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	12	%	ASTM D638
Flexural Modulus (Injection Molded)	1570	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	110	°C	ASTM D648
Vicat Softening Temperature	155	°C	ASTM D1525

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