

# Moplen EP318R

Polypropylene Copolymer

PolyMirae

## Message:

Moplen EP318R is the polypropylene copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP318R is a copolymer particularly suitable for extrusion coating and lamination of PP woven, PP cloth and kraft paper. Moplen EP318R resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	High Stiffness		
	Low Neck-In		
Uses	Coating Applications		
	Fabric Coatings		
	Laminates		
	Paper Coatings		
Agency Ratings		FDA 21 CFR 177.1520	
Processing Method		Extrusion Coating	
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)	31	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)	31.4	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus (Injection Molded)	1420	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	25	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	150	°C	ASTM D1525

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