

Moplen EP300L

Polypropylene Copolymer

PolyMirae

Message:

Moplen EP300L is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP300L is a block copolymer selected by customers for use in injection molding of toys, crates, battery case.

Moplen EP300L resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

Moplen EP300L has a flame rating of UL94HB.

General Information			
UL YellowCard	E215205-229286		
Features	Block Copolymer		
	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	Low Temperature Impact Resistance		
	Low Warpage		
Uses	Battery Cases		
	Crates		
	Pails		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	25.5	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus (Injection Molded)	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	79	J/m	
23°C	490	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	90.0	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525

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