

Moplen EP300L

Polypropylene Copolymer

PolyMirae

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Technical Data

Product Description

Moplen EP300L is the polypropylene block copolymer manufactured by PMC under the license of BASSELL 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

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E215205-229286
Search for UL Yellow Card	• PolyMirae • Moplen
Availability	• Asia Pacific
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 (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Injection Molded)	3700 psi	25.5 MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	6.0 %	6.0 %	ASTM D638
Flexural Modulus (Injection Molded)	149000 psi	1030 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-4°F (-20°C)	1.5 ft·lb/in	79 J/m	
73°F (23°C)	9.2 ft·lb/in	490 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	90	90	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Injection Molded	194 °F	90.0 °C	
Vicat Softening Temperature	302 °F	150 °C	ASTM D1525

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

