

Moplen EP547U

Polypropylene Copolymer

PolyMirae

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Technical Data

Product Description

Moplen EP547U is the polypropylene block copolymer manufactured by PMC under the license of BASSELL using the Spheripol process.

Moplen EP547U is a very high fluidity, nucleated block copolymer with antistatic agent, suitable for thin-walled injection molding and compounding applications.

The main applications of EP547U are margarine tubs, packing for daily products, ice cream containers, lids, houseware, toy boxes, laundry baskets and automotive compounds.

Moplen EP547U resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet - ASTM (English) • Technical Datasheet - ISO (English)
Search for UL Yellow Card	• PolyMirae • Moplen
Availability	• Asia Pacific
Additive	• Antistatic • Nucleating Agent
Features	• Antistatic • Block Copolymer • Good Dimensional Stability • High Flow • Low to No Odor • Low Warpage • Nucleated
Uses	• Automotive Applications • Compounding • Containers • Food Containers • Household Goods • Lids • Packaging • Thin-walled Parts • Toys
Agency Ratings	• FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer

Physical	Nominal Value Unit	Test Method
Density	0.900 g/cm ³	ISO 1183 ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	70 g/10 min	ASTM D1238 ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus - Secant (23°C)	1500 MPa	ISO 527-2/1
Tensile Strength (Yield)	24.0 MPa	ASTM D638
Tensile Elongation (Yield)	5.0 %	ASTM D638
Flexural Modulus ³ (6.40 mm)	1570 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-20°C	2.8 kJ/m ²	
0°C	3.4 kJ/m ²	
23°C	4.0 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-20°C	54 kJ/m ²	
0°C	55 kJ/m ²	
23°C	84 kJ/m ²	
Notched Izod Impact		ASTM D256
-20°C	49 J/m	
23°C	78 J/m	

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature 0.45 MPa, Unannealed	100 °C	ISO 75-2/B
Vicat Softening Temperature	149 °C	ISO 306/A50



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

³ 30 mm/min

