

Moplen EP547U

Polypropylene Copolymer

PolyMirae

Message:

Moplen EP547U is the polypropylene block copolymer manufactured by PMC under the license of BASELL 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 Information			
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 ¹ (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
NOTE			
1.	30 mm/min		

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