

# Moplen EP548P

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP548P is a nucleated heterophasic copolymer, suitable for injection moulding applications, and contains an anti-static agent. It exhibits a high stiffness combined with a medium fluidity.

Moplen EP548P is extensively used in houseware, furniture, cylindrical containers and crates.

EP548P resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Additive	Nucleating agent		
	Antistatic property		
Features	Nucleated		
	Rigidity, high		
	Antistatic property		
	Workability, good		
	Medium liquidity		
	Compliance of Food Exposure		
Uses	Furniture		
	Household goods		
	Container		
	Loading box		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1550	MPa	ISO 527-2/1
Flexural Modulus	1470	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.5	kJ/m <sup>2</sup>	ISO 179/1eA
0°C	4.0	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	6.5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	100	kJ/m <sup>2</sup>	ISO 179/1eU

0°C	130	kJ/m <sup>2</sup>	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	59	J/m	ASTM D256
23°C	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	120	°C	ASTM D648
0.45 MPa, not annealed	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	147	°C	ASTM D1525, ISO 306/A50

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