

# Moplen EP548R

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP548R is a nucleated heterophasic copolymer with antistatic agent used for injection moulding applications. It exhibits a excellent stiffness / impact balance combined with a medium fluidity. Moplen EP548R is applied in toys, furniture and thin-walled injection moulding items. Moplen EP548R is suitable for food contact.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	Impact Copolymer		
	Medium Flow		
	Nucleated		
Uses	Food Containers		
	Furniture		
	Sporting Goods		
	Thin-walled Parts		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	21	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	28.0	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1550	MPa	ISO 527-2
Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m <sup>2</sup>	
0°C	4.5	kJ/m <sup>2</sup>	
23°C	6.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	100	kJ/m <sup>2</sup>	
0°C	130	kJ/m <sup>2</sup>	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Ductile / Brittle Transition Temperature	-60.0	°C	ISO 6603-2

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