

# Moplen EP548P

LyondellBasell Industries - Polypropylene Copolymer

Thursday, January 11, 2024

## General Information

### Product Description

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.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	
Additive	• Antistatic	• Nucleating Agent	
Features	• Antistatic	• Impact Copolymer	
	• Copolymer	• Medium Flow	• Nucleated
	• High Stiffness	• Medium Stiffness	
Uses	• Consumer Applications		• Furniture
	• Containers	• Household Goods	• Rigid Packaging
	• Crates	• Packaging	
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1550	MPa	ISO 527-1
Tensile Stress (Yield)	28.0	MPa	ISO 527-2
Tensile Strain (Yield)	7.0	%	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.0	kJ/m <sup>2</sup>	
0°C	4.0	kJ/m <sup>2</sup>	
23°C	8.0	kJ/m <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	69.0	MPa	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	100	°C	
Ductile / Brittle Transition Temperature	-45.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	70.0	°C	ISO 306/B50
--	147	°C	ISO 306/A50

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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