

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.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Food Contact Acceptable		
	Good Stiffness		
	Impact Copolymer		
	Medium Flow		
	Nucleated		
Uses	Containers		
	Crates		
	Furniture		
	Household Goods		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	22.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	69.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1550	MPa	ISO 527-2
Tensile Stress (Yield)	28.0	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	3.0	kJ/m ²	
0°C	4.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	90	kJ/m ²	
0°C	140	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	100	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-45.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	147	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50

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