

Moplen EP448T

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP448T is a nucleated heterophasic copolymer with antistatic additivation used for injection moulding applications. Moplen EP448T has a very good flowability and a good impact/stiffness balance. The main applications of Moplen EP448T are thin walled packaging, housewares and closures.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	Impact Copolymer		
	Nucleated		
Uses	Caps		
	Closures		
	Containers		
	Household Goods		
	Sporting Goods		
	Thin-walled Packaging		
	Toys		
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)	48	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	65.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	62.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1350	MPa	ISO 527-2
Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2

Yield	5.0	%	
Break	40	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.5	kJ/m ²	
0°C	3.5	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-25°C	75	kJ/m ²	
0°C	100	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	151	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50

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