

Moplen EP240H

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP240H is a nucleated heterophasic copolymer, suitable for injection moulding as well as for thermoforming applications.

It exhibits excellent low temperature impact behavior combined with a good processability.

Moplen EP240H is typically used for crates in addition to thermoformed margarine tubs.

Moplen EP240H is suitable for food contact.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Processability		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Nucleated		
Uses	Containers		
	Crates		
	Thermoformed Containers		
Forms	Pellets		
Processing Method	Injection Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	2.70	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	44.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	23.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	8.0	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	8.0	kJ/m ²	

0°C	12	kJ/m ²	
23°C	60	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	No Break		
0°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-47.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	148	°C	ISO 306/A50
--	60.0	°C	ISO 306/B50
Optical	Nominal Value	Test Method	
Gloss (60°)	73	DIN 67530	

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