

Moplen EP240T

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP240T is a nucleated heterophasic copolymer for injection moulding.

Moplen EP240T has a very high flowability combined with a good impact/stiffness balance.

The main applications of Moplen EP240T are thin walled packaging, housewares and housings. Moplen EP240T is suitable for food contact. It is not intended for medical and pharmaceutical applications.

Moplen EP240T is UL listed under file E31765

General Information			
UL YellowCard	E31765-230607		
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	Impact Copolymer		
Uses	Nucleated		
	Containers		
	Household Goods		
	Housings		
	Thin-walled Packaging		
UL File Number	E31765		
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 132/30)	44.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	950	MPa	ISO 527-2
Tensile Stress (Yield)	19.0	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 ²	
0°C	5.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	150	kJ/m ²	
0°C	170	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	78.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	142	°C	ISO 306/A50
--	56.0	°C	ISO 306/B50

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