

Moplen EP300U

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP300U is a very high flow heterophasic copolymer used for injection molding.
Moplen EP300U features an excellent balance between easy processing and good impact strength.
The main applications of Moplen EP300U are thin-walled injection moulding applications and technical compounds.
Moplen EP300U is not intended for use in medical and pharmaceutical applications.

General Information			
Features	Copolymer		
	Good Impact Resistance		
	Good Processability		
	High Flow		
Uses	Containers		
	Food Containers		
Forms	Pellets		
Processing Method	Compounding Extrusion		
	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)	70	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	7.0	%	
Break	50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.1	kJ/m ²	
0°C	4.0	kJ/m ²	
23°C	7.1	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	100	kJ/m ²	
0°C	140	kJ/m ²	
23°C	180	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	71.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	< -50.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	144	°C	ISO 306/A50
--	62.0	°C	ISO 306/B50

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