

Moplen EP300K

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

"Moplen" EP300K is a low fluidity heterophasic copolymer, suitable for injection moulding applications. The product exhibits very high impact even at low temperature combined with a good stiffness. "Moplen" EP300K is typically used in houseware items and in crates.

Moplen EP300K resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Features	Ultra-high impact resistance		
	Low warpage		
	Rigid, good		
	Low liquidity		
	Low temperature impact resistance		
	Compliance of Food Exposure		
Uses	Electrical/Electronic Applications		
	Household goods		
	Loading box		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	> 50.0	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	27.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	7.0	%	ISO 527-2/50
Flexural Modulus			
--	1230	MPa	ASTM D790
--	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	ISO 179/1eA
0°C	5.5	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	90	kJ/m ²	ISO 179/1eU

0°C	130	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	49	J/m	ASTM D256
23°C	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	100	°C	ASTM D648
0.45 MPa, not annealed	75.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	148	°C	ASTM D1525
--	150	°C	ISO 306/A50

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