

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.

General Information			
Features	Good Stiffness		
	High Impact Resistance		
	Impact Copolymer		
	Low Flow		
	Low Temperature Impact Resistance		
Uses	Caps		
	Closures		
	Crates		
	Household Goods		
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)	4.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.40	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	53.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2
Tensile Stress (Yield)	27.0	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	4.0	kJ/m ²	

0°C	5.5	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU	
-20°C	80	kJ/m ²	
0°C	140	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	75.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	150	°C	ISO 306/A50
--	71.0	°C	ISO 306/B50

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

