

Moplen EP340K

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP340K is a nucleated heterophasic copolymer suitable for injection moulding and thermoforming applications.

Moplen EP340K exhibits an outstanding low temperature impact performance and good stiffness combined with a good processability.

Moplen EP340K is designed for use in luggage, transport and cold storage crates, sports and leisure equipment, toys and typical consumer components which are subjected to impact and/or low temperature.

General Information			
Additive	Nucleating Agent		
Features	Block Copolymer		
	Food Contact Acceptable		
	Good Processability		
	Good Stiffness		
	High Impact Resistance		
	Low Temperature Impact Resistance		
Uses	Nucleated		
	Consumer Applications		
	Crates		
	Luggage		
	Sporting Goods		
Forms	Toys		
	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)	46.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	20.0	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	7.0	kJ/m ²	
0°C	13	kJ/m ²	
23°C	66	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	230	kJ/m ²	
0°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-57.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	140	°C	ISO 306/A50
--	52.0	°C	ISO 306/B50

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