

Moplen EP540N

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP540N is a nucleated heterophasic copolymer with a medium flowability, suitable for injection moulding applications. Moplen EP540N is extensively applied in houseware, caps and in toys.
Moplen is suitable for food contact.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	Impact Copolymer		
	Medium Flow		
	Nucleated		
Uses	Caps		
	Household Goods		
	Sporting Goods		
	Toys		
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)	12	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	16.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	63.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2
Tensile Stress (Yield)	28.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	4.0	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	

0°C	4.5	kJ/m ²	
23°C	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	75	kJ/m ²	
0°C	100	kJ/m ²	
23°C	110	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	95.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-52.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	151	°C	ISO 306/A50
--	75.0	°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

