

# Moplen EP540V

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP540V is a polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP540V is a very high fluidity block copolymer as polymerized suitable for compounding applications. Typical applications are compounds for use in automotive interior and exterior trims parts like door panel, inpanel and bumper fascia. Moplen EP540V resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Features	Low warpage		
	Rigid, good		
	Impact resistance, good		
	High liquidity		
	The smell is low to none		
	Compliance of Food Exposure		
Uses	Thin wall parts		
	Car anti-collision bar		
	Application in Automobile Field		
	Car interior equipment		
	Car dashboard		
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 <sup>3</sup>	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	110	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1520	MPa	ISO 527-2/1
Tensile Strength (Yield)	23.5	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus <sup>1</sup> (6.40 mm)	1570	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.0	kJ/m <sup>2</sup>	ISO 179/1eA
0°C	2.1	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	2.5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU

-20°C	35	kJ/m <sup>2</sup>	ISO 179/1eU
0°C	37	kJ/m <sup>2</sup>	ISO 179/1eU
23°C	47	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	25	J/m	ASTM D256
23°C	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	102	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A50
NOTE			

1. 30 mm/min

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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

