

# Moplen EP540R

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

LyondellBasell Australia’s EP540R is a high flow impact copolymer and is formulated with a nucleant additive package. EP540R is designed for injection moulding applications requiring excellent mould filling properties, low warpage, good surface properties, reduced cycle times and a good impact/rigidity balance.

General Information			
Additive	Nucleating Agent		
Features	Fast Molding Cycle		
	Good Impact Resistance		
	Good Moldability		
	Good Stiffness		
	Good Surface Finish		
	High Flow		
	Impact Copolymer		
	Low Warpage		
	Nucleated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183/D
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 1 sec)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Flexural Modulus - Chord	1450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-20°C	2.5	kJ/m <sup>2</sup>	
0°C	3.0	kJ/m <sup>2</sup>	
23°C	4.0	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/B50

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