

Moplen EP140R

Polypropylene, advanced HECO PP copolymer for compounding



Material designers across the automotive and diverse industrial segments continually seek solutions that deliver a demanding combination of high impact resistance and high melt flow rate performance for sophisticated structural parts.

LyondellBasell addresses this challenge with *Moplen* EP140R, an advanced polypropylene copolymer engineered to create solutions for everyday sustainable living. This innovative grade uniquely combines a high fluidity (approximately 22 MFR) with an exceptional impact profile, even at low temperatures, while also offering good stiffness.

Moplen EP140R has outstanding properties that enable the development of advanced sustainable solutions, including those incorporating recycled components, empowering our customers to achieve their goals.

Product benefits

- Good flowability
- Outstanding impact resistance
- Good stiffness
- Heat and chemical resistance

Typical applications

- Building block for compounds for interior and exterior automotive parts

Physical properties	Method	Unit	Moplen EP140R
Melt Flow Rate (230 °C/2.16 kg)	ISO 1133	g/10 min	22
Density	ISO 1183	g/cm ³	0.90
Mechanical properties			
Tensile Modulus	ISO 527	MPa	600
Max Stress at Yield	ISO 527	MPa	13
Elongation at Yield	ISO 527	%	7
Stress at break	ISO 527	MPa	10
Elongation at break	ISO 527	%	100
Impact properties			
Charpy at 23 °C	ISO 179	KJ/m ²	65
Charpy at 0 °C	ISO 179	KJ/m ²	30
Charpy at -20 °C	ISO 179	KJ/m ²	14
Charpy at -30 °C	ISO 179	KJ/m ²	10

About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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