

**Moplen EP440G**

PP

LyondellBasell Industries

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>1.3</b>	g/10min	ISO 1133
Temperature	<b>230</b>	°C	-
Load	<b>2.16</b>	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>1.3</b>	g/10min	ASTM D 1238
Temperature	<b>230</b>	°C	-
Load	<b>2.16</b>	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>1450</b>	MPa	ISO 527
Yield stress	<b>27</b>	MPa	ISO 527
Yield strain	<b>8</b>	%	ISO 527
Strain at break	<b>&gt;50</b>	%	ISO 527
Charpy notched impact strength, +23°C	<b>40</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Ball indentation hardness	<b>48</b>	MPa	ISO 2039-1
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>29.4</b>	MPa	ASTM D 638
Elongation at Yield	<b>9</b>	%	ASTM D 638
Flexural Modulus	<b>1324</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>736</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>78</b>	J/m	ASTM D 256
Temperature	<b>-20</b>	°C	-
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 0.45 MPa	<b>78</b>	°C	ISO 75-1/-2
Vicat softening temperature, A	<b>150</b>	°C	ISO 306
Vicat softening temperature, B	<b>66</b>	°C	ISO 306
<b>Other properties</b>			
Density	<b>900</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>900</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Profile Extrusion, Sheet Extrusion, Other Extrusion, Blow Molding, Thermoforming

**Special Characteristics**

High impact or impact modified

**Features**

Creep Resistance, Nucleated, Copolymer, Impact Copolymer

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa