

**QR Resin QR-4000**  
(PPE+PS+PA\*)

LyondellBasell Industries

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>4</b>	g/10min	ASTM D 1238
Temperature	<b>280</b>	°C	-
Load	<b>2.16</b>	kg	-
Mold Shrinkage, MD	<b>0.01</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>55.2</b>	MPa	ASTM D 638
Flexural Modulus	<b>2070</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>190</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>143</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>124</b>	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1080</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>93 - 107</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Melt temperature	<b>266 - 288</b>	°C	-
Mold temperature	<b>66 - 93</b>	°C	-
Zone 1	<b>249 - 277</b>	°C	-
Zone 2	<b>254 - 282</b>	°C	-
Zone 3	<b>260 - 288</b>	°C	-
Nozzle temperature	<b>271 - 293</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Applications**

Automotive

**Delivery form**

Pellets, Black

**Regional Availability**

North America

**Chemical Resistance**

General Chemical Resistance