

**NYLENE® 743**

PA6

Polymeric Resources Corporation

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength	<b>53.1</b>	MPa	ASTM D 638
Flexural Modulus	<b>1586</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>N</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>187</b>	J/m	ASTM D 256
Temperature	<b>-40</b>	°C	-
<b>Thermal properties</b>			
<b>ASTM Data</b>			
Melting Temperature	<b>104</b>	°C	ASTM D 3418
<b>Other properties</b>			
Density	<b>1080</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>66 - 82</b>	°C	-
Pre-drying - Time	<b>2 - 4</b>	h	-
Processing humidity	<b>≤0.2</b>	%	-
Melt temperature	<b>249 - 282</b>	°C	-
Mold temperature	<b>49 - 93</b>	°C	-
Zone 1	<b>227 - 260</b>	°C	-
Zone 2	<b>238 - 271</b>	°C	-
Zone 3	<b>249 - 282</b>	°C	-
Nozzle temperature	<b>249 - 282</b>	°C	-
Injection pressure	<b>7 - 15</b>	MPa	-
Back pressure	<b>0 - 50</b>	MPa	-
Holding pressure	<b>5 - 12</b>	MPa	-
Maximum residence time	<b>6</b>	min	-

**Characteristics****Processing**

Injection Molding, Pipe/Tube Extrusion, Profile Extrusion

**Applications**

Automotive

**Special Characteristics**

High impact or impact modified

**Regional Availability**

North America