

**Product Texts**

Sampo MAX is a polycarbonate-based thermoplastic polyurethane.

Sampo MAX is characterised by the following features:

- Very good tensile strength, elongation at break and tear resistance
- Wide range of application temperature from -20°C to 115°C
- Low gas permeability
- Excellent hydrolysis and chemical resistance
- Suitable for turning, milling and grinding operations with very low tool wear

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Compression set at 70 °C, 24h	<b>27</b>	%	ISO 815
Shore A hardness	<b>92</b>	-	ISO 7619-1
<b>Other Standards<sup>[5]</sup></b>			
Tensile Strength	<b>50</b>	MPa	DIN 53504
Strain at break	<b>380</b>	%	DIN 53504
Stress at 100% elongation	<b>11</b>	MPa	DIN 53504
Stress at 300% elongation	<b>84</b>	MPa	DIN 53504

S: These properties are reported by the producer according standards that are different to our defaults.

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>3</b>	h	-
Processing humidity	<b>≤0.03</b>	%	-
Melt temperature	<b>225 - 235</b>	°C	-
Mold temperature	<b>20 - 60</b>	°C	-
Feed temperature	<b>25 - 40</b>	°C	-
Zone 1	<b>185 - 195</b>	°C	-
Zone 2	<b>210 - 220</b>	°C	-
Zone 3	<b>215 - 225</b>	°C	-
Nozzle temperature	<b>225 - 235</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Chemical Resistance**

General Chemical Resistance, Hydrolytically Stable

**Delivery form**

Pellets, White

**Regional Availability**

Europe

**Features**

Acoustical Barrier Properties