

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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Compression set at 70 °C, 24h	27	%	ISO 815
Compression set at 100 °C, 24h	33	%	ISO 815
Tear strength	110	kN/m	ISO 34-1
Abrasion resistance	32	mm ³	ISO 4649
Shore A hardness	95	-	ISO 7619-1
Shore D hardness	48	-	ISO 7619-1
Other Standards^[5]			
Tensile Strength	50	MPa	DIN 53504
Strain at break	350	%	DIN 53504
Stress at 100% elongation	15	MPa	DIN 53504
Stress at 300% elongation	84	MPa	DIN 53504

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

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ISO 1183

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

Characteristics

Processing

Injection Molding

Delivery form

Pellets, White

Features

Acoustical Barrier Properties

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Certifications

Food contact, Food approval FDA 21 CFR

Regional Availability

Europe