PEARLTHANE® 11T95P

Thermoplastic Polyurethane Elastomer

PEARLTHANE® 11T95P is a polycaprolactone copolyester based TPU, supplied in form of translucent, colorless pellets, combining hardness with excellent mechanical properties. A special additive package assures excellent paintability of injection molded parts.

TYPICAL PHYSICAL PROPERTIES

Physical Property	Test Method	Typical Values *
Specific Gravity	ASTM D-792	1.19
Shore Hardness	ASTM D-2240	95 A / 49 D
Tensile Strength	ASTM D-412	5801 psi.
Elongation @ Break	ASTM D-412	515 %
Modulus @ 100% Elongation	ASTM D-412	1740 psi.
Modulus @ 300% Elongation	ASTM D-412	3625 psi.
Tear Strength	ASTM D-624 (Die C)	880 lb/in
Abrasion Loss	DIN 53.516	20 mm^3
Compression Set (70 h. @ 73ºF)	ASTM D-395	32 %
Compression Set (24h. @ 158ºF)	ASTM D-395	42 %
Moisture Content	MQSA 44	< 0.1 %
Melting Range *(MFI=10)*	MQSA 111	383-401 ºF
Tg *(DSC, 50 ºF / min.)*	DIN 51.007	- 36 ºF

** These are typical values & should not be used for establishing specifications.*
*** Temperature at which MFI = 10 g/10 min @ 21.6 kg.*

WORKING INSTRUCTIONS

For optimum results, previous drying of the product during 1-2 hours at 210 - 230º F is advisable, in a hot air circulatory, vacuum or desiccant-air dryer.

INJECTION MOLDING

Based on an injection molding equipment with the following characteristics:

Closing force:	: 30 tons
Screw diameter:	: 1.02 in
L/D ratio:	: 23
Maximum hydraulic pressure:	: 3050 psi.
Mold:	: Plaque 4.7x4.7x0.08 in.

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The suggested processing conditions are as follows:

INJECTION CONDITIONS

Feed zone	385ºF	Injection pressure	1250 psi
Compression zone	390ºF	Injection time	3 sec
Metering zone	410ºF	Holding pressure	720 psi
Nozzle	410ºF	Holding time	15 sec
Mold temperature	95ºF	Cooling time	30 sec

Screw speed : approx. 180 rpm.

APPLICATIONS

PEARLTHANE® 11T95P is recommended for injection molding applications such as: seals, wheels and castors, ear-tags, shoe soles and a variety of high performance technical parts.

HEALTH AND SAFETY

A safety data sheet on **PEARLTHANE® 11T95P** is available, with all the information related to safety.

PACKAGING

PEARLTHANE® 11T95P is packaged in heat-sealed, moisture proof multi–layer bags of 25 Kg net weight made of PE/Aluminium/PE. Bags are shipped on pallets of 750 Kg. Additionally, PE-lined cardboard gaylords of 700 Kg net weight are available.

STORAGE

Material received from Merquinsa should be inspected to assure the containers are not damaged during transportation before being stored prior to use. **PEARLTHANE® 11T95P** should be kept in a cool (60-75ºF) and dry environment prior to being processed. Standard practice of consuming resin on first-in first-out basis should be employed.

For more information, please feel free to contact us at **www.merquinsa.com**

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