

MEXPUR TPU 85LA02 is a polyester based, plasticized and fully transparent TPU, exhibiting fast processing cycles. Stable processing, high strength, low precipitation, high transparency. Recommended for the production of pipes, modification, wire, injection, high flexibility soles, slip properties and very good abrasion resistance exhibits an excellent adhesion to most of two component PU systems. This product combines the advantages of rubbery material to those typical ones of TPU.

Property	Value	Unit	Method	Method	Propiedad
Specific Gravity	1.24	gr/cm <sup>3</sup>	ASTM D792	DIN 53479	Densidad
Shore Hardness (1 sec.)	86	A	ASTM D5963	DIN 53505	Dureza Shore
Abrasion Loss	30	mm <sup>3</sup>	ASTM D2241	DIN 53516	Abrasión
Tensile Modulus: 50%	-	MPa	ASTM D412	DIN 53504	Módulo de Young: 50 %
Tensile Modulus: 100%	5	MPa	ASTM D412	DIN 53504	Módulo de Young: 100 %
Tensile Modulus: 300%	15	MPa	ASTM D412	DIN 53504	Módulo de Young: 300 %
Tensile Strength	36	MPa	ASTM D412	DIN 53504	Resistencia a la tracción
Elongation at Break	600	%	ASTM D412	DIN 53515	Alargamiento a la rotura
Tear Strength	115	kN/m	ASTM D624	DIN 53505	Resistencia al desgarro
VICAT Softening Point	77	°C	ASTM D1525	ISO 306	VICAT
Compression Set: 70h/23°C	21	%	ASTM D395	DIN 53517	Compression Set: 70h/23°C
Compression Set: 22h/70°C	43	%	ASTM D395	DIN 53517	Compression Set: 22h/70°C

All these physical properties are based on injection molded samples, which are conditioned at 23°C/50% for 24h. Above values are typical values and should not be used as specifications.

**Processing methods:** Injection, extrusion, calendaring, T-die extrusion

Complying with FDA (21CFR 177.1680, 177.2600), RoHS, REACH, etc.

**Identifiers:** Chemical Name: MDI/ butylene glycol/ adipic acid copolymer

**Synonyms:** Polyester-based TPU

**CAS #** 26375-23-5

#### Applications

Elastic bands  
Automotive Parts  
Compounding  
Footwear  
Seals  
Conveyor belts  
Screen packs  
Oil tubes

#### Value Propositions

Short cycle time  
Good wear resistance  
Excellent Mechanical Properties  
Outstanding abrasion resistance

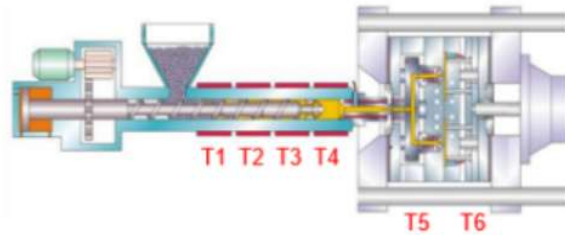
#### Market Segments

Plastics  
Wire & cable  
Footwear  
Films & Sheets  
Transportation  
Automotive

**PREDRYNG CONDITONS** Material to be need dried prior processing at 80÷90°C, preferably using a dehumidifying drier feeded by air exhibiting a dew point lower than -30°C,

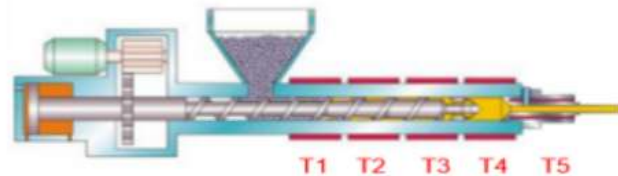
**INJECTION GUIDELINES**

<b>Molding shrinkage:</b>	1.5 ÷ 2.5%				
<b>Injection Speed:</b>	Medium - Fast				
<b>Injection Pressure:</b>	Medium - Fast				
<b>Back Pressure:</b>	Low-Medium				
<b>Holding Pressure:</b>	Sufficient to pack the mould				
<b>Cooling:</b>	Can be demoulded when parts have sufficiently cooled				
<b>Barrel temperature °C:</b>	T1: 160÷170	T2: 185÷190	T3: 190÷195	T4: 200÷205	T5/T6: 25 ÷ 45
	Feed	Compression	Metering	Injector	Molde



**EXTRUSION GUIDELINES**

<b>L/D Ration:</b>	20:1 - 25:1				
<b>Compression Ratio:</b>	2.5 - 3.0				
<b>Breaker Plate/Screen:</b>	Both should be used				
<b>Draw Down:</b>	5 - 10%				
<b>Cooling:</b>	Cold water bath				
<b>Barrel temperature °C:</b>	T1: 160÷170	T2: 180÷185	T3: 180÷185	T4: 185÷195	T5: 180 ÷ 185
	Feed	Compression	Metering	Connector	Die



**STORAGE AND STABILITY**

MEXPUR TPU 85LA02 is supplied in regular pelletized form and packaged in 25 kg bags on pallet 1000 Kg. MEXPUR TPU 85LA02 must be stored in its original and sealed containers and kept in a dry and well ventilated place, avoiding the direct sun radiation.

**SHELF LIFE**

The shelf life of MEXPUR TPU 85LA02 is of six months from the date of delivery to the final customer, if stored in its original sealed packaging and in proper conditions.

**SAFETY**

The product is not considered dangerous, nevertheless we recommend to read the Material Safety Data Sheet before handling.

The indicators / data / suggestions provided in this report are the company's control, small-scale test, pilot test or experience data for reference only. The buyer is responsible for testing the product to verify the buyer's proposed process, application field and special environment. The seller cannot control the process and production environment of subsequent processing products, so the buyer shall be responsible for the risks and hidden dangers arising from subsequent processing.