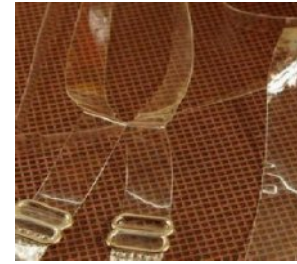


Thermoplastic Polyurethane Elastomer---TPU

TPU-41 Series



Characteristics:

Polyester-based, Good Transparency, Perfect Mechanical and Cold-resistance Properties, Fast Forming Speed.

Applications:

It can be widely used to produce hoses&tubes, shoe-soles, sealing rings, straps, animal tags and some other injection and ex

Physical properties

Item	Test method	Unit	T4175	T4180	T4185	T4190	T
Specific gravity	ASTM-D792	g/cm ³	1.18	1.18	1.19	1.20	
Hardness	ASTM-2240	Shore A	76	80	85	91	
Tensile strength	ASTM-D412	MPa	25	31	32	41	
Elongation at break	ASTM-D412	100%	750	660	580	510	
100% modulus	ASTM-D412	MPa	4.2	4.5	5.6	10.4	
300% modulus	ASTM-D412	MPa	5.6	7.7	10.4	18.7	
Tear strength	ASTM-D624	N/mm	84	95	106	134	
Processing temperature	Injection		175 ~ 190	180 ~ 195	190 ~ 205	200 ~ 215	20
	Extrusion		160 ~ 185	160 ~ 185	175 ~ 200	170 ~ 200	17

Note:

- 1) These are typical values and should not be used as specifications.
- 2) For optimum results, previous drying of the product during 3-4 hours at 85-100 is advisable, in a hot air circulatory, va
The suggested processing-temperature profiles for injection & extrusion are depicted in the figure above