

Thermoplastic Polyurethane Elastomer---TPU

GW -14 TPU Series

- Characteristic:

Polyester based, transparent, excellent mechanical and cold resistance properties, fast forming speed and easy process.

- Application:

It can be used to produce PU tube, transparent shoe products, seals, strap, industry wheels and some other injection and extrusion products.

[Physical properties](#)

Item	Test method	Unit	GW-1475	GW-1480	GW-1485	GW-1490	GW-1495
Specific gravity	ASTM-D792	g/cm ³	1.18	1.18	1.19	1.20	1.21
Hardness	ASTM-2240	Shore A	75±2	80±2	85±2	91±2	95±2
Tensile strength	ASTM-D412	MPa	25	31	37	41	47
Elongation at break	ASTM-D412	100%	750	660	580	510	480
100% modulus	ASTM-D412	MPa	4.2	4.5	5.6	10.4	12.9
300% modulus	ASTM-D412	MPa	5.6	7.7	10.4	18.7	21.5
Tear strength	ASTM-D624	N/mm	84	95	106	134	155
Process temperature	Injection	°C	180~195	185~200	190~205	200~215	200~215
	Extrusion	°C	160~185	160~185	165~190	170~200	175~205

Note: For optimum results, previous drying of the product during 3-4 hours at 100~110°C is advisable, in a hot air circulatory, vacuum or desiccant-air dryer. The suggested processing-temperature profiles for injection & extrusion are depicted in the figure above