

Thermoplastic Polyurethane Elastomer---TPU



Characteristics:

Polyester-based, Good abrasion resistance, Excellent Mechanical Properties and Good Processability.

Applications:

heel lifts, top-piece etc.

Physical properties

Item	Test method	Unit	T2195	T2198
Hardness	ASTM 2240	Shore A/D	96/52	98/56
Tensile strength	ASTM D412	MPa	38	39
Tear strength	ASTM D624	kN/m	137	168
Elongation at break	ASTM D412	100%	540	460
100% modulus	ASTM D412	MPa	11.5	14
300% modulus	ASTM D412	MPa	18.4	22
Processing temperature	Injection		205-220	205-225
	Extrusion			

Note:

For optimum results, previous drying of the product during 3-4 hours at 85-100 °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