

TPU Technical Data Sheet (TDS)

PHYSICAL PROPERTIES

Property	Testing Method	Typical Value
Density	ISO1183, GB/T1033	1.20-1.24 g/.cm3 at 21 °C
Melt Index	210 °C, 1.2Kg	3-6g/ 10 min
Flame Retardancy	UL94	V2

THERMAL PROPERTIES

Property	Testing Method	Typical Value
Melting temperature	DSC, 10° C/min	168 °C
Crystallization temperature	DSC, 10° C/min	94 °C

MECHANICAL PROPERTIES

Property	Testing Method	Typical Value
100% modulus (X-Y)	ISO 527, GB/T 1040	9.4 ± 0.3 MPa
Young's modulus (X-Y)	ISO 527, GB/T 1040	29 ± 2.8 MPa
Elongation at break (X-Y)	ISO 527, GB/T 1040	330.1 ± 14%
Shore hardness	ISO 7619, GB/T 31	95A