

# Flexible TPU Material Properties

Mechanical properties (23 °C/50 % r. h.)

Typical Properties	Test Conditions	Units	Standards	Value
Density	/	g/cm <sup>3</sup>	ISO1183	1.21
Shore hardness method A	/	/	ISO868	94
Shore hardness method D	/	/	ISO868	41
Ultimate tensile strength	200mm/min	MPa	i.A.ISO527-1,-3	50
Elongation at Break	200mm/min	%	i.A.ISO527-1,-3	450
Stress at 100% strain	200mm/min	MPa	i.A.ISO527-1,-3	10
Stress at 300% strain	200mm/min	MPa	i.A.ISO527-1,-3	24
Compression set	24h;70°C	%	ISO815	45
Compression set	72h;23°C	%	ISO815	21
Abrasion resistance	/	mm <sup>3</sup>	ISO4649	17
Impact Resilience	/	%	ISO4662	40
Tear propagation resistance	500mm/min	kN/m	ISO34-1	90