

TPU T166M 产品物理性能表

ISO Shortname:				
Property	Test Condition	Unit	Standard	Value
				drying according to specifications annealed -
Mechanical properties (23 °C/50 % r. h.)				
C shore hardness, method A		-	ISO 868	96
C shore hardness, method D		-	ISO 868	56
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3	60
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3	430
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3	15
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3	35
C Compression set	24 h; 70 °C	%	ISO 815	45
C Compression set	72 h; 23 °C	%	ISO 815	30
C Abrasion resistance		mm ³	ISO 4649	35
Impact resilience		%	ISO 4662	35
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1	130
Flexural modulus	2 mm/min	MPa	ISO 178	150
Thermal properties				
Torsional storage modulus	-20 °C	MPa	ISO 6721-2	505
Torsional storage modulus	23 °C	MPa	ISO 6721-2	66
Torsional storage modulus	70 °C	MPa	ISO 6721-2	24
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1200
Molding conditions				
Injection molding-Melt temperature		°C	-	220 - 235
Injection molding-Mold temperature		°C	-	20 - 40



