



Texin 945 U

Polyether-based TPU grades / Shore hardness D 45 - 70

Aromatic polyether-based grade thermoplastic polyurethane with approximate Shore D hardness of 45 for injection molding, extrusion, and blow molding.

ISO Shortname

Property	Test Condition	Unit	Standard	Value
Mechanical properties (23 °C/50 % r.h.)				
Flexural modulus		lb/in ²	ASTM D 790	5000
Tensile strength		lb/in ²	ASTM D 412	6000
Ultimate elongation		%	ASTM D 412	400
Tensile stress at 50 % elongation		lb/in ²	ASTM D 412	1400
Tensile stress at 100 % elongation		lb/in ²	ASTM D 412	1600
Tensile stress at 300 % elongation		lb/in ²	ASTM D 412	3500
Compression set, as molded		%	ASTM D 395-B	22
Compressive load		lb/in ²	ASTM D 575	3125
Tear strength, Die C		lbf/in	ASTM D 624	725
Thermal properties				
Glass transition temperature	DMA=Dynamic Mechanical Analysis	°F	DMA	-40
Low-temperature brittle point		°F	ASTM D 746	< -90
Vicat softening temperature		°F	ASTM D 1525	240
Other properties (23 °C)				
Specific gravity		-	ASTM D 792	1.14
Bayshore resilience		%	ASTM D 2632	35

