



Texin 950

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

Aromatic polyether-based thermoplastic polyurethane with a Shore D hardness of approximately 50 for injection molding or extrusion.

ISO Shortname

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Mold shrinkage, flow/cross to flow	Value range based on general practical experience	in/in	ASTM D 955	0.008
Mechanical properties (23 °C/50 % r.h.)				
Flexural modulus	73 °F	lb/in ²	ASTM D 790	16500
Flexural modulus	158 °F	lb/in ²	ASTM D 790	6800
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	1750
Tensile stress at 100 % elongation		lb/in ²	ASTM D 412	2000
Tensile stress at 300 % elongation		lb/in ²	ASTM D 412	4000
Compression set, as molded	22 h at 73 °F	%	ASTM D 395-B	20
Compression set, as molded	22 h at 158 °F	%	ASTM D 395-B	70
Compression set, post-cured	22 h at 73 °F; post-cured 16 h at 230 °F	%	ASTM D 395-B	15
Compression set, post-cured	22 h at 158 °F; post-cured 16 h at 230 °F	%	ASTM D 395-B	40
Compressive load	2% deflection	lb/in ²	ASTM D 575	150
Compressive load	5% deflection	lb/in ²	ASTM D 575	425
Compressive load	10% deflection	lb/in ²	ASTM D 575	800
Compressive load	15% deflection	lb/in ²	ASTM D 575	1100
Compressive load	20% deflection	lb/in ²	ASTM D 575	1500
Compressive load	25% deflection	lb/in ²	ASTM D 575	1800
Compressive load	50% deflection	lb/in ²	ASTM D 575	4500
Tear strength, Die C		lbf/in	ASTM D 624	750
Thermal properties				
Glass transition temperature	DMA=Dynamic Mechanical Analysis	°F	DMA	-17
Low-temperature brittle point		°F	ASTM D 746	< -90
Vicat softening temperature		°F	ASTM D 1525	262
Coefficient of linear thermal expansion, flow/cross-flow		in/in/°F	ASTM D 696	7 E-5
Other properties (23 °C)				
Specific gravity		-	ASTM D 792	1.15
Shore hardness		D Scale	ASTM D 2240	50
Taber abrasion	H-18 wheel; 1,000-g; 1,000 cycles	mg Loss	ASTM D 3489	75
Bayshore resilience		%	ASTM D 2632	35