



Texin DP7-3007

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

Developmental product
Aliphatic thermoplastic polyurethane based on polyether. This resin with an approximate Shore hardness of 55D, is transparent and light stable.

ISO Shortname

Property	Test Condition	Unit	Standard	Value
Mechanical properties (23 °C/50 % r.h.)				
Tensile strength		lb/in ²	ASTM D 412	4100
Ultimate elongation		%	ASTM D 412	360
Tensile stress at 100 % elongation		lb/in ²	ASTM D 412	1630
Tensile stress at 300 % elongation		lb/in ²	ASTM D 412	3400
Compression set, as molded	22 h at 73 °F	%	ASTM D 395-B	48.9
Compression set, as molded	22 h at 158 °F	%	ASTM D 395-B	93.5
Compression set, as molded	22 h at 212 °F	%	ASTM D 395-B	98.2
Compression set, post-cured	22 h at 73 °F; post-cured 16 h at 230 °F	%	ASTM D 395-B	18.6
Compression set, post-cured	22 h at 158 °F; post-cured 16 h at 230 °F	%	ASTM D 395-B	85.3
Compression set, post-cured	22 h at 212 °F; post-cured 16 h at 230 °F	%	ASTM D 395-B	91.6
Tear strength, Die C		lbf/in	ASTM D 624	680
Thermal properties				
Vicat softening temperature	Rate A; 1 kg; 50 °C/h	°F	ASTM D 1525	42.3
Other properties (23 °C)				
Specific gravity		-	ASTM D 792	1.15
Shore hardness		D Scale	ASTM D 2240	55
Taber abrasion	H-18 wheel; 1,000-g; 1,000 cycles	mg Loss	ASTM D 3489	130
Bayshore resilience		%	ASTM D 2632	47.6

