



Texin DP7-3007

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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 D412	4100
Ultimate elongation		%	ASTM D412	360
Tensile stress at 100 % elongation		lb/in ²	ASTM D412	1630
Tensile stress at 300 % elongation		lb/in ²	ASTM D412	3400
Compression set, as molded	22 h at 73 °F	%	ASTM D395-B	48.9
Compression set, as molded	22 h at 158 °F	%	ASTM D395-B	93.5
Compression set, as molded	22 h at 212 °F	%	ASTM D395-B	98.2
Compression set, post-cured	22 h at 73 °F; post-cured 16 h at 230 °F	%	ASTM D395-B	18.6
Compression set, post-cured	22 h at 158 °F; post-cured 16 h at 230 °F	%	ASTM D395-B	85.3
Compression set, post-cured	22 h at 212 °F; post-cured 16 h at 230 °F	%	ASTM D395-B	91.6
Tear strength, Die C		lbf/in	ASTM D624	680
Thermal properties				
Vicat softening temperature	Rate A; 1 kg; 50 °C/h	°F	ASTM D1525	42.3
Other properties (23 °C)				
Specific gravity		-	ASTM D792	1.15
Shore hardness		D Scale	ASTM D2240	55
Taber abrasion	H-18 wheel; 1,000-g; 1,000 cycles	mg Loss	ASTM D3489	130
Bayshore resilience		%	ASTM D2632	47.6