

# Texin 260

/ Aromatic polyester-based thermoplastic polyurethane with Shore D hardness of approximately 60 for injection molding. Extrusion not recommended.

## ISO Shortname

Property	Test Condition	Unit	Standard	Value
<b>Rheological properties</b>				
Mold shrinkage, flow/cross to flow	Value range based on general practical experience	in/in	ASTM D955	0.008

## Mechanical properties (23 °C/50 % r. h.)

Flexural modulus	73 °F	lb/in <sup>2</sup>	ASTM D790	43000
Tensile strength		lb/in <sup>2</sup>	ASTM D412	6000
Ultimate elongation		%	ASTM D412	400
Tensile stress at 50 % elongation		lb/in <sup>2</sup>	ASTM D412	2900
Tensile stress at 100 % elongation		lb/in <sup>2</sup>	ASTM D412	3000
Tensile stress at 300 % elongation		lb/in <sup>2</sup>	ASTM D412	4300
Compression set, as molded	22 h at 73 °F	%	ASTM D395-B	27
Compression set, as molded	22 h at 158 °F	%	ASTM D395-B	55
Compression set, post-cured	22 h at 73 °F; post-cured 16 h at 230 °F	%	ASTM D395-B	21
Compression set, post-cured	22 h at 158 °F; post-cured 16 h at 230 °F	%	ASTM D395-B	35
Compressive load	2% deflection	lb/in <sup>2</sup>	ASTM D575	50
Compressive load	5% deflection	lb/in <sup>2</sup>	ASTM D575	525
Compressive load	10% deflection	lb/in <sup>2</sup>	ASTM D575	1370
Compressive load	15% deflection	lb/in <sup>2</sup>	ASTM D575	1950
Compressive load	20% deflection	lb/in <sup>2</sup>	ASTM D575	2520
Compressive load	25% deflection	lb/in <sup>2</sup>	ASTM D575	3150
Compressive load	50% deflection	lb/in <sup>2</sup>	ASTM D575	7785
Tear strength, Die C		lbf/in	ASTM D624	1000

## Thermal properties

Glass transition temperature	DMA=Dynamic Mechanical Analysis	°F	DMA	5.0
Low-temperature brittle point		°F	ASTM D746	< -90
Deflection temperature under load	66 psi	°F	ASTM D648	140
Vicat softening temperature	Rate A; 1 kg; 50 °C/h	°F	ASTM D1525	374
Coefficient of linear thermal expansion, flow/cross-flow		in/in/°F	ASTM D696	0.00007

## Other properties (23 °C)

Specific gravity		-	ASTM D792	1.22
Shore hardness		D Scale	ASTM D2240	60
Taber abrasion	H-18 wheel; 1,000-g; 1,000 cycles	mg Loss	ASTM D3489	50
Bayshore resilience		%	ASTM D2632	35

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## Disclaimer

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ASTM Datasheet