Texin DP7-1097

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ISO Shortname

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Mold shrinkage, flow/cross to flow		in/in	ASTM D955	0.008
Mechanical properties (23 °C/50 % r. h.)				
Flexural modulus	73 °F	lb/in²	ASTM D790	6600
Flexural modulus	158 °F	lb/in²	ASTM D790	3841
Flexural modulus	-22 °F	lb/in²	ASTM D790	57,400
Tensile strength		lb/in²	ASTM D412	6000
Ultimate elongation		%	ASTM D412	450
Tensile stress at 50 % elongation		lb/in²	ASTM D412	875
Tensile stress at 100 % elongation		lb/in²	ASTM D412	950
Tensile stress at 300 % elongation		lb/in²	ASTM D412	2200
Compression set, as molded	22 h at 73 °F	%	ASTM D395-B	20
Compression set, as molded	22 h at 158 °F	%	ASTM D395-B	65
Compression set, post-cured	22 h at 73 °F; post-cured 16 h at 230 °F	%	ASTM D395-B	14
Compression set, post-cured	22 h at 158 °F; post-cured 16 h at 230 °F	%	ASTM D395-B	30
Compressive load	2% deflection	lb/in²	ASTM D575	44
Compressive load	5% deflection	lb/in²	ASTM D575	158
Compressive load	10% deflection	lb/in²	ASTM D575	332
Compressive load	15% deflection	lb/in²	ASTM D575	497
Compressive load	20% deflection	lb/in²	ASTM D575	663
Compressive load	25% deflection	lb/in²	ASTM D575	839
Compressive load	50% deflection	lb/in²	ASTM D575	2340
Tear strength, Die C		lbf/in	ASTM D624	600
Thermal properties				
Glass transition temperature	DMA=Dynamic Mechanical Analysis	°F	DMA	-36
Vicat softening temperature		°F	ASTM D1525	216
Coefficient of linear thermal expansion, flow/cross-flow		in/in/°F	ASTM D696	7.8 E-05
Other properties (23 °C)				
Specific gravity		-	ASTM D792	1.20
Shore hardness		A Scale	ASTM D2240	90A
Shore hardness		D Scale	ASTM D2240	40D
Taber abrasion	H-18 wheel; 1,000-g; 1,000 cycles	mg Loss	ASTM D3489	50
Bayshore resilience		%	ASTM D2632	35