

Mechanical Properties for Lexan™-like Urethane



Lexan™-like Urethane

PROPERTIES	Lexan™-like Urethane	TEST METHOD	
Color	White	Visual	
Cured Hardness, Shore D	70 – 75 D	ASTM D2240	
Specific Volume, cu.in. /lb	25.56	ASTM D792	
Tensile Strength, psi	7,263 psi	ASTM D638	
Elongation at Break, %	7.6 %	ASTM D638	
Tensile Modulus, psi	238,110 psi	ASTM D638	
Flexural Strength, psi	10,253 psi	ASTM D790	
Flexural Modulus, psi	244,498 psi	ASTM D790	
Compressive Strength, psi	9,273 psi	ASTM D695	
Compressive Modulus, psi	276,097 psi	ASTM D695	
Glass Transition Temperature (Tg)	216 °F	TMA	
Coefficient of Thermal Expansion, Range: 50 °C to 100 °C	7.40×10^{-3} in./in./ °F	ASTM D696	
Heat Deflection Temp.	66 psi 264 psi	175 °F 166 °F	ASTM D648
Izod Impact Strength, (ft-lb. per inch of notched).	Notched Un-notched	0.42 3.6	ASTM D256

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