

Wearex™ MC Material Datasheet

ASTM or UL test	Property	Wearex™ MC
D792	Density (lb/in ³) (g/cm ³)	0.042 1.16
D570	Water Absorption, 24 hrs (%) Saturation (%)	0.3 7.0
D638	Tensile Strength (psi)	10,500
D638	Tensile Modulus (psi)	400,000
D638	Tensile Elongation at Break (%)	30
D790	Flexural Strength (psi)	16,000
D790	Flexural Modulus (psi)	400,000
D695	Compressive Strength (psi)	14,000
D695	Compressive Modulus (psi)	400,000
D785	Hardness, Rockwell R	R110
D256	IZOD Notched Impact (ft-lb/in)	0.5
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	3.5
D648	Heat Deflection Temp (°F / °C) at 264 psi	200 / 93
D3418	Melting Temperature (°F / °C)	420 / 215
-	Max Operating Temp (°F / °C)	200 / 93
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	- -
UL94	Flammability Rating	HB
D149	Dielectric Strength (V/mil) short time, 1/8" thick	400
D150	Dielectric Constant at 60 Hz	3.7
D150	Dissipation Factor at 60 Hz	-
D257	Volume Resistivity (ohm-cm) at 73°F, 50% RH	> 10 ¹³

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.