

TYPICAL PROPERTIES of RULON®

ASTM or UL test	Property	Rulon® LR (maroon)	Rulon® J (gold)	Rulon® 641 (white)	Rulon® AR (maroon)
PHYSICAL					
D792	Density (lb/in ³) (g/cm ³)	0.082 2.27	0.070 1.95	0.081 2.25	0.081 2.24
D2240	Hardness, Shore D	60-75	60	60	60-75
D570	Water Absorption, 24 hrs (%)	0	0	0	0
MECHANICAL					
D1457	Tensile Strength (psi)	1,500	2,000	2,000	2,000
D1457	Tensile Elongation at Yield (%)	150	180	175	175
D256	IZOD Notched Impact (ft-lb/in)	6.0	-	-	6.0
THERMAL					
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	varies widely with temperature			
Cenco-Fitch	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	2.30 7.92	1.70 5.86	2.60 8.96	2.30 7.92
D635	Flammability (in/min)	None	None	None	None
ELECTRICAL					
D149	Dielectric Strength (V/mil) short time, .08" thick	400-500	200	-	400-500
D150	Dielectric Constant at 1 MHz	2.5	2.4	-	2.5
D150	Dissipation Factor at 1 MHz	0.003	0.001	-	0.003
D257	Surface Resistivity (ohm-cm) at 50% RH	2 x 10 ¹³	6 x 10 ¹⁸	-	2 x 10 ¹³
D257	Volume Resistivity (ohm-cm) at 50% RH	1 x 10 ¹⁵	8 x 10 ¹⁸	-	1 x 10 ¹⁵
RECOMMENDED OPERATING LIMITS					
Maximum Load (psi)		1,000	1,000	1,000	1,000
Maximum Velocity with No Pressure (ft/min)		400	400	400	400
Maximum PV Rating (psi x ft/min)		10,000	10,000	10,000	10,000
Maximum Operating Temp (°F / °C)		500 / 260	500 / 260	500 / 260	500 / 260
Minimum Operating Temp (°F / °C)		-450 / - 240	-450 / - 240	-450 / -240	-450 / - 240
Minimum Mating Surface Hardness (Rockwell)		C35	B25	B25	C35