



Rulon 641 / AR

Family of reinforced proprietary PTFE compounds

GENERAL PROPERTIES	ASTM or UL Test	RULON® 641 Typical Values	RULON® AR Typical Values
COLOUR		○ White	● Maroon
PHYSICAL			
Specific Gravity (g/cm ³)	D792	2.25	2.24
Water Absorption, 24 hrs (%)	D570	0	0
MECHANICAL			
Tensile Strength (psi)	D1457	2,000	2,000
Tensile Elongation at Yield (%)	D1457	175	175
Hardness, Shore D	D2240	60	60-75
IZOD Notched Impact (ft-lb/in)	D256	-	6.0
THERMAL			
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	-	-
Thermal Conductivity (BTU-in/ft ² -hr-°F)	Cenco-Fitch	2.60	2.30
ELECTRICAL			
Dielectric Strength (V/mil) short time, .08" thk	D149	-	400-500
Dielectric Constant at 1 MHz	D150	-	2.5
Dissipation Factor at 1 MHz	D150	-	0.003
Surface Resistivity (ohm/sq)	D257	-	2 x 10 ¹³
Volume Resistivity (ohm-cm) at 50% RH	D257	-	1 x 10 ¹⁵
RECOMMENDED OPERATING LIMITS			
Maximum Load (psi)	-	1,000	1,000
Maximum Velocity with No Pressure (ft/min)	-	400	400
Maximum PV Rating (psi x ft/min)	-	10,000	10,000
Maximum Operating Temp (°F / °C)	-	500 / 260	500 / 260
Minimum Operating Temp (°F / °C)	-	-450 / -240	-450 / -240
Minimum Mating Surface Hardness (Rockwell)	-	B25	C35

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.