

TYPICAL PROPERTIES OF RADEL® PSU			
ASTM or UL test	Property	Unfilled (A-300)	30% Glass-filled (AG-330)
PHYSICAL			
D792	Density (lb/in ³) (g/cm ³)	0.050 1.37	0.057 1.58
D570	Water Absorption, 24 hrs (%)	0.54	0.39
MECHANICAL			
D638	Tensile Strength (psi)	12,200	18,900
D638	Tensile Modulus (psi)	385,000	825,000
D638	Tensile Elongation at Yield (%)	6.5	1.9
D790	Flexural Strength (psi)	16,100	23,500
D790	Flexural Modulus (psi)	420,000	950,000
D695	Compressive Strength (psi)	14,500	25,600
D695	Compressive Modulus (psi)	38,800	1,119,000
D785	Hardness, Rockwell	M88/R127	M80/R124
D256	IZOD Notched Impact (ft-lb/in)	1.6	1.4
THERMAL			
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	2.7	1.7
D648	Heat Deflection Temp (°F / °C) at 264 psi	400 / 204	420 / 215
D3418	Melting Temp (°F / °C)	-	-
-	Max Operating Temp (°F / °C)	320 / 160	320 / 160
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	1.13 3.89	1.35 4.65
UL94	Flammability Rating	V0	V0
ELECTRICAL			
D149	Dielectric Strength (V/mil) short time, 1/8" thick	380	440
D150	Dielectric Constant at 1 KHz	3.5	4.1
D150	Dissipation Factor at 1 KHz	0.0022	0.0018
D257	Volume Resistivity (ohm-cm)at 50% RH	1.7 x 10 ¹⁵	>10 ¹⁶

These products are available from



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