Palruf ® / Sun N Rain®

Material: Corrugated PVC

Updated: 8/16/11(MDW)

Notes: The table depicting the typical properties of PALRUF sheets appears below.

Conditions, units and values in U.S. Customary units are presented in the table within parentheses. All the results depicted in this table were obtained by following the indicated ASTM method except where another method is indicated by the appearance of this symbol (b).

Property	Conditions (U.S. Customary)	ASTM Method	Units - SI (U.S. Customary)	Value (U.S. Customary)
Physical				
Density		D-1505	g/cm^3 (lb/ft^3)	1.4 (87.4)
Mechanical				
Tensile strength at yield	10 mm/min (0.4 in./min)	D-638	MPa (psi)	52-66(7542-9573)
Tensile strength at break	10 mm/min (0.4 in./min)	D-638	MPa (psi)	39-53(5656-7687)
Elongation at yield	10 mm/min (0.4 in./min)	D-638	%	3
Elongation at break	10 mm/min (0.4 in./min)	D-638	%	140-160
Tensile Modulus of Elasticity	10 mm/min (0.4 in. /min)	D-638	MPa (psi)	2700(391,600)
Flexural Modulus	1.3 mm/min (0.05 in./min)	D-790	MPa (psi)	2200(320,000)
Flexural Strength at Yield	1.3 mm/min (0.05 in./min)	D-790	MPa (psi)	90-100(13,100-14,500)
Impact Falling Weight	3 mm (0.12 in.) Sheet	ISO-6603/1b	J (ft·lbf)	45-60(33-44)
Rockwell Hardness		D-785	R scale / M scale	105-115
Thermal				
Long Term Service			°C (°F)	-20 to 50(-4 to 122)
Heat Deflection Temperature	Load: 1.82 Mpa (264 psi)	D-648	°C (°F)	61-67(142-152)
Coefficient of Linear Thermal Expansion		D-696	10^{-5}/°C (10^{-5}/°F)	6.3 (3.5)
Thermal Conductivity		C-177	W/m°K (Btu-in./hr-ft^2-°F)	0.16 (1.11)