



Sheet

Tuffak® A polycarbonate sheet

PROPERTIES	VALUE	UNITS	TEST METHOD
Miscellaneous			
Specific Gravity	1.2		ASTM D792
Rockwell Hardness	70-78	M	ASTM D785
Mechanical			
Tensile Properties			ASTM D638
Ultimate	9,500	PSI	"
Yield	8,400	PSI	"
Elongation	100	%	"
Tensile Modulus	340,000	PSI	
Flexural Properties (span depth ratio 16, 0.1in/min)			ASTM D790
Maximum	15,000	PSI	"
Flexural Modulus	340,000	PSI	"
Shear Strength	5,800	PSI	ASTM D732
Notched Izod Impact(73°F/23°C)	16	ft-lb/in notch	ASTM D256
Charpy Impact	No Break	ft-/lb/1/2"x1" section	ASTM D256
Thermal			
Deflection temperature under (flexural) load			ASTM D648
264 psi	275	°F	"
66 psi	285	°F	"
Optical			
Refractive Index (ND @ 73°F)	1.586		ASTM D542
Luminous Transmittance (0.125"/3.2 mm.)	85-91	%	ASTM D1003
Haze (0.125 in./3.2 mm.)	0.5-0.2	%	ASTM D1003
Flammability and Building Code Data			
Horizontal Burn Length Rating	CC1		ASTM D635
Horizontal Burn Length	0.375-1.000	in/min	ASTM D635
Smoke Density	66-75		ASTM D2843
Self Ignition Temperature	1090	°F	ASTM D1929
UL-94 Flame Class	UL94 HB		UL-94

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