

TRUPOLY Product Data



Typical Physical Properties

Property	Method*)	Conditions	Units	Value
Density	(D-792)		lb/ft ³	75
Heat Deflection Temperature	(D-648)	Load: 264 psi	°F	265
Short Term Service Temperature Range			°F	-60 to +250
Long Term Service Temperature Range			°F	-60 to +210
Coefficient of Linear Thermal Expansion	(D-696)		in./in. °F	0.037
Thermal Conductivity	(C-177)	0.4 in./min	Btu-in./hr-ft ² -°F	1.46
Tensile Strength at Yield	(D-638)	0.4 in./min	psi	9,400
Tensile Strength at Break	(D-638)	0.4 in./min	psi	8,800
Elongation at Yield	(D-638)	0.4 in./min	%	6
Elongation at Break	(D-638)	0.4 in./min	%	>90
Tensile Modulus of Elasticity	(D-638)	0.12 in. Clear Sheet 0.052 in./min	psi	290,000
Flexural Strength	(D-790)	0.12 in. Clear Sheet 0.052 in./min	psi	14,500
Flexural Modulus	(D-790)		psi	380,000
Impact Falling Weight	(ISO 6603/1 E ₅₀)	0.12 in. Sheet	ft-lb	117
Rockwell Hardness	(D-785)		R Scale	125R
Transmission Lumineuse	(D-1003)		%	89%
Haze	(D-1003)		%	<0.5
Yellowness Index	(D-1003)		WI	<1

* ASTM except where noted otherwise

Flammability

PALSUN®	
Standard	Classification*
BS 476/7	Class 1Y
NSP 92501, 4	M1, M2
DIN 4102	B1, B2
CSE RF 2/75/A, CSE RF 3/77	Class 1
UL Classified	V2 (File e221255)
ASTM D-635	CC1
PALSUN® FR	
Standard	Classification*
UL Classified	V0 (File e221255)
ASTM D-2863-87	L.O.I. = 30
AU 1530.3-1982	Ignitability Index = 9
	Spread of Flame Index = 8
	Heat Evolved Index = 10
	Smoke Developed Index = 8

* All the above depends on thickness.

For additional information please contact your PALSUN distributor.