

## Properties

Properties	Item	Method ASTM	Unit	POM-NAT/BLK	
	Color	-	-	white/black	
	Density	D792	lbs/in <sup>3</sup>	0.051	
	Water absorption	after 24/96h immersion in water of 73°F	D570	mg	20/37
			D570	%	0.24/0.45
		at saturation in air of 73°F, 50%RH	D570	%	0.20
		at saturation in water of 73°F	D570	%	0.85
Thermal Properties	Melting Temperature	D2133	°F	330	
	Thermal conductivity at 73°F	C177	Btu-in/ft <sup>2</sup> -h-°F	2.1	
	Coefficient of linear thermal expansion	average value btw 73~140°F	D696	in/in/°F	61 · 10 <sup>-6</sup>
		average value btw 73~212°F	D696	in/in/°F	69 · 10 <sup>-6</sup>
	Temperature of Deflection under load	method A : 264psi	D648	°F	220
	Max. allowable service temp. in air :	for short periods	-	°F	285
		continuously : 5,000/20,000h	-	°F	240/210
		Min. service temperature	-	°F	-50
Flammability	UL94 (3/6mm thickness)	-	-	HB/HB	
Mechanical Properties at 73°F	Tension test	tensile stress	D638	psi	9,450
		tensile strain at break	D638	%	30
		tensile modulus of elasticity	D638	psi	450,000
	Compression test	compressive stress at 10% nominal strain	D695	psi	15,000
	Izod impact strength-Notched		D256	ft-lbs/in	0.7
	Rockwell hardness		D785	-	R115
	Electrical Properties at 73°F	Electric strength	D149	V/mil	510
Volume resistivity		D257	Ω-cm	>10 <sup>14</sup>	
Surface resistivity		D257	Ω	>10 <sup>13</sup>	