



COATED PRODUCTS, INC.
Special Application Acrylic Sheet

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Clarex® Physical Properties

TEST METHOD

PROPERTIES	JIS	ASTM	UNIT	NORMAL GRADE	HARD COAT GRADE
OPTICAL					
Refractive Index	K7105	D-542	-	1.49	1.49 (Material) 1.53 (Surface)
Total Light Transmittance	K7105	D-1003	%	92-93	92-93
Haze	K7105	D-1003	%	0.1	0.1
MECHANICAL					
Elongation	K7113	D-638	%	5	5
Tensile Rupture Strength	K7113	D-638	MPa	70	45
Flexural Rupture Strength	K7203	D-790	MPa	118	60
Impact Strength (Izod)	K7110	D-256	KJ/m ²	2.0	-
Rockwell Hardness	K7202	D-785	M scale	100	-
Pencil Hardness	D0202	-	-	2H	6-8H
THERMAL					
Heat Distortion Temp.	K7207	D-648		110	110
Coefficient of Thermal Expansion	K6911	D-696	cm/cm/	7 x 10 ⁻⁵	7 x 10 ⁻⁵
Coefficient of Thermal Conductivity	K1413	-	W/m	0.17	0.17
Max Recm'd Continuous Temp.	-	-		80	80
Heat Forming Temperature	-	-		140-180	-
Specific Heat	K7123	-	J/g?	1.47	1.47
ELECTRICAL					
Volume Resistance	K6911	D-257	cm	.10 ¹⁶	.10 ¹⁶
Surface Resistance	K6911	D-257		.10 ¹⁶	.10 ¹⁶
CHEMICAL RESISTANT					
Acetone	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Test Condition Tested after immersing for 24 hours o - No Change — - Slight Change x - Changed </div>			—	o
Methyl Alcohol (50%)				o	o
Detergent				o	o
Sulfuric acid (10%)				o	o
Caustic soda (10%)				o	o
Dichloromethane				x	o
Kerosene				o	o
MISCELLANEOUS					
Specific Gravity	K7112	D-792	-	1.19	1.19
Water Absorption	K7209	D-570	%	0.3	0.3
Flammability	UL Standard		0.8mm thick	94HB	94HB