Weatherall Equipment & Instruments Ltd

CLAREX

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Exclusive Distributor for
Nitto Jushi Kogyo Co. Ltd.
Manufacturers of CLAREX®

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Clarex UV Cut Filter

CLAREX UV Cut filter is manufactured using Clarex Cast Acrylic Sheet, Poly-Methyl-Methacrylate (PMMA), and protects the display from ultra-violet rays. There are five types of ultra-violet absorption filters, ranging from 370nm ~ 480nm. It is available as a smooth or Non-Glare (AG) surface grade, with the option of Scratch Resistance for both.

Features

- Absorb UV rays
- Optical Grade Cell Cast Acrylic
- Isotropic Transmission (Non Birefringence)
- Variety of Non-Glare surface texture.
- Hardcoating available on one or two sides with no impact to the non-glare texture. (6～7H)

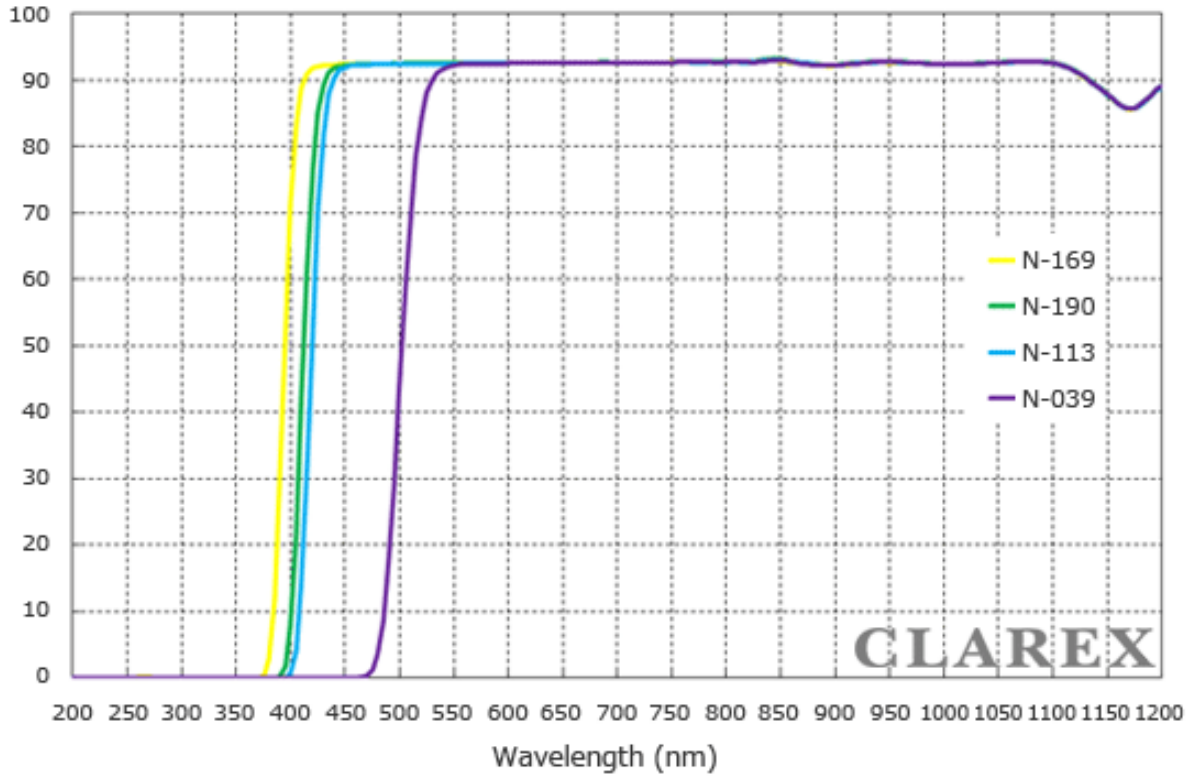
Grade Available

- N-169（Absorb 380nm or below）
- N-190（Absorb 390nm or below）
- N-113（Absorb 400nm or below）
- N-039（Absorb 470nm or below）

Available Thickness

Size	Available Thickness
400x550mm	0.2mm,0.3mm,0.5mm,0.8mm.1.0mm,1.2mm,1.5mm,2.0mm,2.5mm,3.0mm

Transmission:



※ These are our experimental measured values in 1.0mm thick.
Value provided cannot be guaranteed in your application due to circumstances beyond our control.

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Physical Properties

PROPERTIES	METHOD	UNIT	Normal Grade	Hard Coat Grade
SPECIFIC GRAVITY	ASTM D-792		1.19	1.19
OPTICAL				
Refractive Index	ASTM D-542		1.49	1.49 (1.53)
MECHANICAL				
Elongation	ASTM D-638	%	5	5
Tensile Rupture Strength	ASTM D-638	Mpa	70	45
Flexural Rupture Strength	ASTM D-790	Mpa	118	60
THERMAL				
Heat Distortion Temperature	ASTM D-648	℃	110	110
Maximum recommended continuous temperature		℃	80	80
Coefficient of Thermal Expansion	ASTM D-696	cm/cm/℃	7×10^{-5}	7×10^{-5}
Specific Heat	ASTM D-638	J/℃	1.47	1.47
DURABILITY				
Hot Resistance	80℃ x 100hr		No Change	No Change
Cold Resistance	-40℃ x 100hr		No Change	No Change
Humid Resistance	60℃x90%x100hr		No Change	No Change
Thermal Cycle	-40℃ ⇔ 80℃ (10 cycles)		No Change	No Change
ELECTRICAL				
Surface Resistivity	ASTM D-257	Ω	$>10^{16}$	$>10^{16}$
PENCIL HARDNESS			2H	6~8H
CHEMICAL				
Methyl Alcohol (50%)			No Change	No Change
Ethyl Alcohol (50%)			No Change	No Change
Soap Aqua Solution			No Change	No Change
Toluene			Dissolved	No Change
Acetone			Dissolved	No Change
Benzene			Swollen	No Change
Ethylene Dichloride			Dissolved	No Change
ADHESION	K-5400			100/100
FLAMMABILITY	UL standard	≧0.8mm Thickness	94HB	94HB