



DIRECTORS:  
R H C Worthington  
A R J Worthington  
N C Worthington

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

Weatherall Equipment & Instruments Ltd.  
Unit 1, Station Approach, Wendover, Bucks.  
HP22 6BN  
England

T: +44 (0)1296 622180  
F: +44 (0)1296 624955  
E: sales@weatherall-uk.com  
W: www.weatherall-uk.com

## Clarex UV Cut Filter

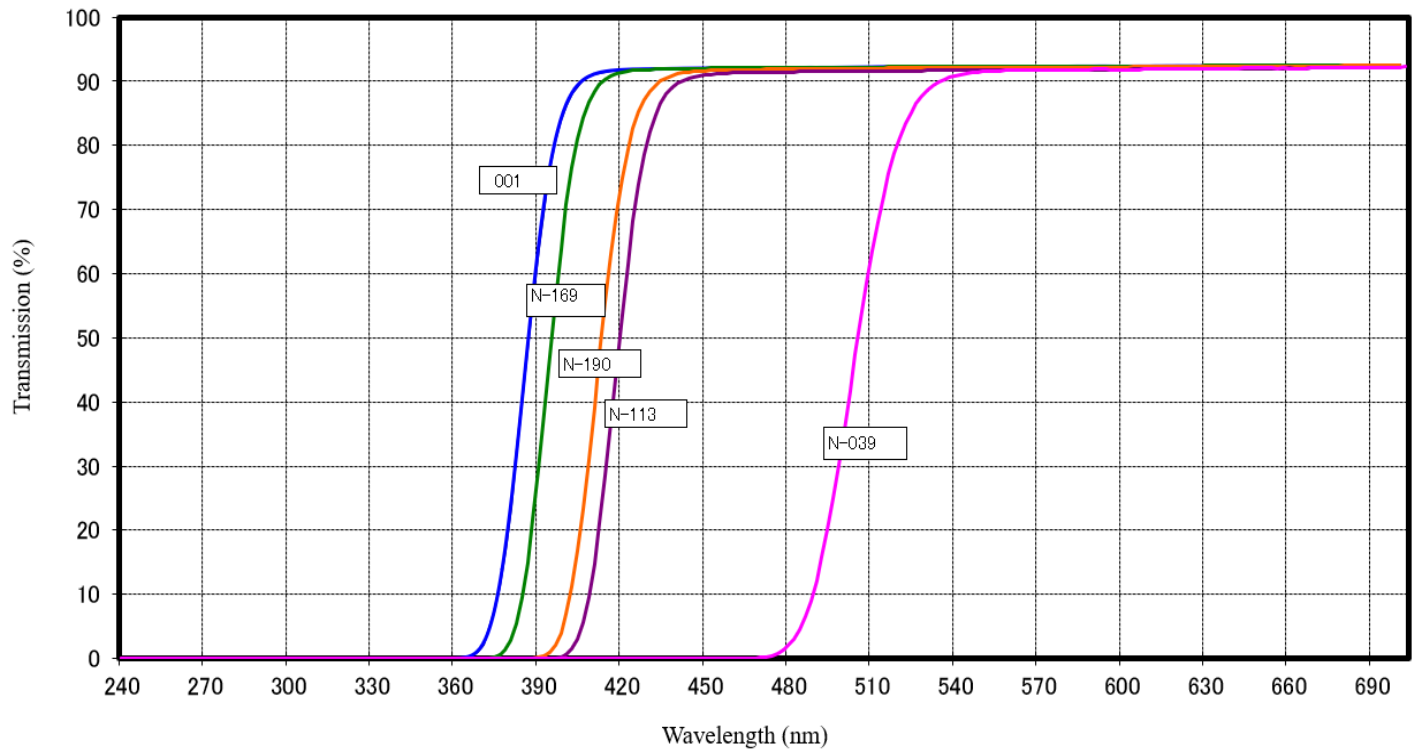
**CLAREX** UV CUT FILTER is manufactured using Clarex Cast Acrylic Sheet, Poly-Methyl-Methacrylate (PMMA), and protects the display from ultra-violet rays. There are five types of ultra-violet absorption filters, ranging from 370nm ~ 480nm. It is available as a smooth or Non-Glare (NG) surface grade,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

### Features:

- Absolute Ultra-Violet Rays.
- Excellent Optical characteristics.
- Isotropic Transmission (Non Birefringence).
- Excellent Weatherability and Durability.
- Light Weight (Half weight of inorganic glass).
- Available smooth surface or Anti-Glare (AG) surface.
- Available smooth surface or Anti-Glare surface.
- Available Scratch-Resistant.

Grade No.	Colour Tone	UV absorption
CL-001	Clear	Absorb UV under 370nm
N-169	Clear	Absorb UV under 380nm
N-190	Clear	Absorb UV under 390nm
N-113	Clear	Absorb UV under 400nm
N-039	Yellow	Absorb UV under 470nm

### Transmission Graph



### Available Sizes and Thickness:

Size	Available Thickness
400x550mm, 1000 x 1000mm	3.0mm, 2.0mm, 1.5mm, 1.0mm, 0.8mm, 0.5mm, 0.4mm, 0.3mm, 0.2mm





DIRECTORS:  
R H C Worthington  
A R J Worthington  
N C Worthington

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

Weatherall Equipment & Instruments Ltd.  
Unit 1, Station Approach, Wendover, Bucks.  
HP22 6BN  
England

T: +44 (0)1296 622180  
F: +44 (0)1296 624955  
E: sales@weatherall-uk.com  
W: www.weatherall-uk.com

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	°C	110	110
Maximum recommended continuous temperature		°C	80	80
Coefficient of Thermal Expansion	ASTM D-696	cm/cm/°C	7 x 10 <sup>-5</sup>	7 x 10 <sup>-5</sup>
Specific Heat	ASTM D-638	J/°C	1.47	1.47
DURABILITY				
Hot Resistance	80°C x 100hr		No Change	No Change
Cold Resistance	-40°C x 100hr		No Change	No Change
Humid Resistance	60°C x 90% x 100hr		No Change	No Change
Thermal Cycle	-40°C ↔ 80°C (10 cycles)		No Change	No Change
ELECTRICAL				
Surface Resistivity	ASTM D-257	Ω	> 10 <sup>16</sup>	> 10 <sup>16</sup>
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

\* Value provided cannot be guaranteed in your application due to circumstances beyond our control.

