



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 Non-Glare Sheet

CLAREX Non-Glare Sheet distributes surface reflection and increases the legibility of the display.

### Features

- Optical Grade Cell Cast Acrylic
- Prevents reflection of light.
- Isotropic Transmission (Non Birefringence)
- Variety of Non-Glare surface texture.
- Non-Glare texture is applied directly on the surface during manufacture (i.e. not a coating).
- Hard-coating available on one or two sides with no impact to the non-glare texture. (6~7H)
- Choice of non-glare texture on one-side or both-side.
- Enhance display contrast.
- An infinite number of colour options with colour matching available.

### Available Thickness

- 0.3mm to 5.0mm in 0.1mm increments  
(Please contact us if you require another thickness)

### Available Size

- 400 x 550mm and 1000 x 1000mm
- Hard-Coating grade available in 400 x 550mm only.

### Non-Glare Grades

Non-Glare Grade	Total Light Transmittance %	Haze %	Gloss Value %
No.1	92	2.0	55
No.1 / No.1	91	6	55
No.2	90	6.0	35
No.3	97	90	2
No.9	92	1.0	78
EX20	92	4.0	57
EX30	91	7.0	45
EX30 / EX30	91	10	45
EX70	92	3.0	72
M-55	90	17.0	25





**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
<b>Specific Gravity</b>	ASTM D-792		1.19	1.19
<b>Optical</b>				
Refractive Index	ASTM D-542		1.49	1.49 (1.53)
<b>Mechanical</b>				
Elongation	ASTM D-638	%	5	5
Tensile Rupture Strength	ASTM D-638	MPa	70	45
Flexural Rupture Strength	ASTM D-790	MPa	118	60
Impact Strength (Izod)	ASTM D-256	KJ/m <sup>2</sup>	2	
Rockwell Hardness	ASTM D-785		100	
<b>Thermal</b>				
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>
Coefficient Of Thermal Conductivity	ASTM D-177	W/m°C	0.17	0.17
Specific Heat		J/°C	1.47	1.47
<b>Durability</b>				
Heat 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
<b>Electrical</b>				
Surface Resistivity	ASTM D-257	Ω	> 10 <sup>16</sup>	> 10 <sup>16</sup>
Volume Resistivity	ASTM D-257	Ωcm	> 10 <sup>16</sup>	> 10 <sup>16</sup>
<b>Pencil Hardness</b>			2~3H	6~8H
<b>Chemical</b>				
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
<b>Adhesion</b>	K-5400			100/100
Ethylene Dichloride			Dissolved	No Change
<b>Flammability</b>	UL standard	≥0.8mm Thickness	94HB	94HB





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

Material	Specular Component	X	Y	Z	L*	a*	b*
EX20	SCI	3.42	3.61	3.89	22.35	-0.10	-0.08
	SCE	0.79	0.84	0.93	7.61	-0.20	-0.35
EX30	SCI	3.40	3.60	3.86	22.30	-0.14	0.02
	SCE	1.28	1.36	1.49	11.68	-0.23	-0.39
EX70	SCI	3.53	3.73	4.01	22.75	-0.03	-0.04
	SCE	0.67	0.71	0.79	6.42	-0.12	-0.38
No.1	SCI	3.36	3.55	3.82	22.14	-0.14	-0.06
	SCE	0.73	0.77	0.83	6.99	-0.09	0.05
No.2	SCI	3.29	3.48	3.73	21.88	-0.13	0.03
	SCE	1.65	1.74	1.86	14.06	-0.12	0.08
No.3	SCI	3.76	3.97	4.34	23.58	-0.06	-0.43
	SCE	3.69	3.91	4.25	23.37	-0.17	-0.27
No.9	SCI	3.73	3.94	4.30	23.47	-0.08	-0.36
	SCE	0.14	0.15	0.19	1.36	-0.08	-0.35
M-55	SCI	3.45	3.64	3.91	22.46	-0.08	0.00
	SCE	2.29	2.42	2.58	17.57	-0.12	0.13
RH20 Flat	SCI	4.37	4.62	5.06	25.63	-0.09	-0.50
	SCE	0.04	0.04	0.05	0.41	-0.06	-0.05
MHA2100 Flat	SCI	4.81	4.79	4.89	26.12	3.48	1.20
	SCE	0.05	0.05	0.07	0.43	0.25	-0.28
MHA2100 Non-Glare No.1 001	SCI	4.67	5.19	5.57	27.27	-3.17	0.00
	SCE	0.09	0.08	0.21	0.70	0.71	-1.89

Reflection Measured using Spectrophotometer SD6000 (Nippon Denshoku), D65 Light Source at 10° angle.



# Weatherall

Equipment & Instruments Ltd

# CLAREX

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



Registered in England: No. 1594740, VAT Number: GB366 9199 95

# CLAREX