

## IRUV CUT COAT

# Technical Date Sheet

## ■ Heat insulation

**[IRUV CUT COAT test report-001]** 

NSG Techno-Research Corporation June 2003.

"Optical properties and thermal characterization of coated glass"

Visible light	transmittance	Solar	Solar radiation UV		Solar radiation LIV		Shading	
transmission	sunshine	reflectance		transmittance	gain rate		coefficient	
transmission	sunsnine	renectance	Absorption rate	transmittance	Summer	Winter	Summer	Winter
68.0%	39.9%	5.0%	55.1%	0.33%	0.59	0.56	0.67	0.63

## ■ Heat resistant cracking

**[IRUV CUT COAT test report-001]** 

NSG Techno-Research Corporation June 2003.

"Thermal cracking test"

Thermal cracking tool										
Direction	East		Southeast		South		Southwest		West	
Thermal cracking judgment	OK		ОК		OK		ОК		ОК	
Season	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
Temperature of central portion $\lceil {}^{\circ}\!$	44	4	46	24	36	26	47	26	47	18
Sash temperature $\lceil {}^{ ext{ iny $C$}}  floor$	25	-10	27	7	27	7	28	7	28	4
Thermal stress occurs	125	89	125	125	54	125	125	125	125	90
Allowable thermal stress	180	180	180	180	180	180	180	180	180	180
Heat stress difference $\lceil  ext{kg/cm2}  floor$	44	91	55	55	126	55	55	55	55	90



## **■**Durability

 $\llbracket \text{IRUV CUT COAT test report-002} \rrbracket \llbracket \text{IRUV CUT COAT test report-003} \rrbracket$ 

### KOKANKYO Engineering Co., Ltd. in April 2006

"Weather resistant coating agent test report"

Tested by a xenon lamp weather over (equivalent to approximately 10 years) 2580 hours

Test Result	The change is not accepted by a color, a film.
-------------	--

### March, 2008 DAINICHISEIKA Color & Chemicals Mfg. Co., Ltd.

Super UV irradiation testing and pencil hardness test

Yellowing, cloudiness and evaluation

	Blank	100 hour	200 hour
Sample①	0	0	0
Sample2	0	0	0

#### Pencil hardness test (JIS K5400)

	Blank	100 hour	200 hour
Sample ①	4H	4H	4H
Sample2	4H	4H	4H

## ■ Adhesion

 $\llbracket \text{IRUV CUT COAT test report-002} \rrbracket$ 

### KOKANKYO Engineering Co., Ltd. in April 2006

"Weather resistant coating agent test report"

Item	Method	Result	Standard
Boiling water resistance	1hour boiling water immersion	0	
Gasoline resistance	Gasoline rubbing 200	0	
Solvent resistance	Xylene rubbing 200	0	
	0.1 sodium hydroxide	0	
Chemical resistance	5% sodium hydroxide	×	
10% nitric acid		0	
	10% sulfuric acid	0	
Scratch hardness	Pencil method	9H	JIS K5400
Adhesion	Cross-cut adhesion test		JIS K5400



## **■**Safety

• Volatile Organic Compounds (VOC) 『IRUV CUT COAT test report-004』

### Japan Food Research Laboratories Co., Ltd. in August 2006

"Formaldehyde test"

Analysis of test items	Test result	Detection limit	**Note 1	Method
Formaldehyde emission	0.12mg/L		%Note 1	Absorption spectrophotometry

**※** Note 1. JIS K5601-4-1 : 2003

Combustion test

 $\llbracket \text{IRUV CUT COAT test report-005} \rrbracket$ 

### Japan Railway Rolling Stock & Machinery Association in October 2004

Test number 16-526K

During combustion of a	lcohol	After combustion of alcohol		
Ignition	No	After flame		
Wear flame	No	Residual dust	-	
Smoke	No	Carbonization	60mm discoloration	
Force of flame —		Deformation	No	
Remarks				
Assessment		Non-c	combustible	

Tested with No.151-83 Ordinance of the "Ministry of Land, Infrastructure, Transport and Tourism"