

# Noritake Standard Acrylic Color Filters

## Key Features

- Inexpensive
- Large Selection
- Available w/ 3M Adhesive Tape
- Excellent Weather Ability & Durability
- UL Approval for Flammability Std. 94HB
- Optical Quality
- Nonglare Surface

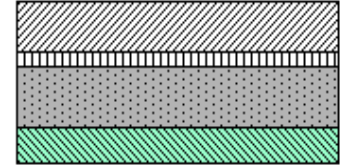
Noritake has developed a series of acrylic color filters for Vacuum Fluorescent Displays (VFDs). These filters are durable, cost-effective, and optimized for VFDs. Five colors in ten sizes are available as standard items. Custom colors, sizes and thickness are welcome.

## Main Specifications

Parameter	Value	Condition
Operating Temperature	-30 to +80 °C	
Storage Temperature	-30 to +80 °C	
Reflective Index	1.49	ASTM D-542
Haze	1.9	ASTM D1003
Elongation	5%	ASTM D638
Tensile Rupture Strength	750 kg/cm <sup>2</sup>	ASTM D-638
Flexural Strength	1200 kg/cm <sup>2</sup>	ASTM D-638
Impact Strength	2.0 kJ/m <sup>2</sup>	ASTM D-256
Pencil Hardness	2-3H	JIS D0202
Rockwell Hardness	100 M scale	ASTM D-785
Heat Distortion Temperature	110 °C	ASTM D-638
Coefficient of Thermal Expansion	7x10 exp-5 cm/cm/°C	ASTM D-638
Coefficient of Thermal Conductivity	0.17 W/m°C	ASTM C-177
Cutting Tolerance	±0.5mm	Overall Size
Thickness Tolerance	±0.12mm	

## Materials and Construction (Cross-Section) of F3 Filter w/o Tape

- Removable Protective Film (Clear)
- Non Glare Surface Texture
- Plastic Base (1.0mm Thickness)
- Removable Protective Film (Green)

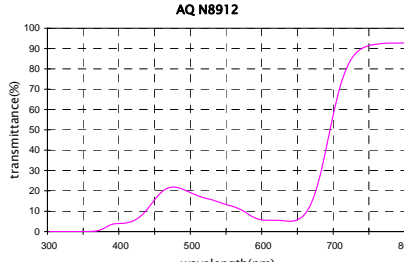
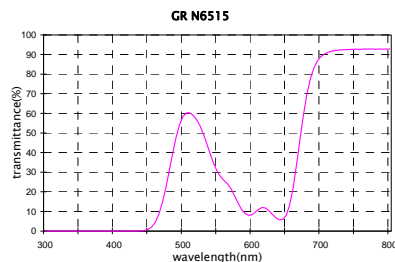
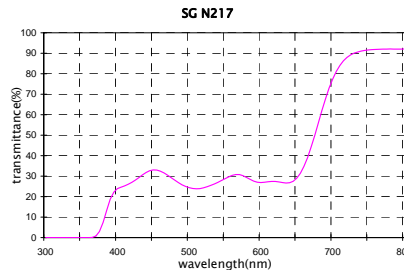
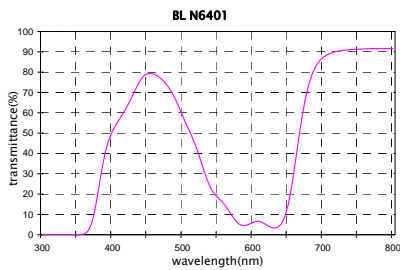


## Standard (Stock) Items

\* Transmission Values are based on information we believe to be reliable. It is offered in good faith, but without guarantee.

Size Code	Filter Size (mm)	Normitake Module P/N.**	No.
	94.0x24.0	CU20025ECPB-W1J	01
	164.0x24.0	CU40025-UW6J GU280x16G-7xxx	02
	75.0x22.0	CU16025ECPB-W6J GU112x16G-7xxx	03
	83.0x24.0	GUI28x32D-7xxx	04
	95.0x22.0	GUI40x16G-7xxx	05
	129.0x31.0	CU20029ECPB-W1J GU140x16J-7xxx	06
	95.0x34.0	CU20045-UW5J GUI40x32F-7xxx	07
	109.0x24.0	CU24025ECPB-W1J	08
	84.0x41.0	GUI28x64D-7xxx	09
	144.0x42.0	GU256x64D-7xxx/3xxx	10
	115.0x60.0	GU256x128C-3xxx	11

Standard Colors				Prefix	Filter Part Number										
Color No.	Color	Color Code	Transmission*		Suffix										
01	Blue	BL N6401	21%	F3-	01-01	01-02	01-03	01-04	01-05	01-06	01-07	01-08	01-09	01-10	01-11
05	Smoke Gray	SG N217	31%		05-01	05-02	05-03	05-04	05-05	05-06	05-07	05-08	05-09	05-10	05-11
12	Green	GR N6515	29%		12-01	12-02	12-03	12-04	12-05	12-06	12-07	12-08	12-09	12-10	12-11
16	Aqua	AQ N8912	16%		16-01	16-02	16-03	16-04	16-05	16-06	16-07	16-08	16-09	16-10	16-11
17	Rose	RO N660	28%	17-01	17-02	17-03	17-04	17-05	17-06	17-07	17-08	17-09	17-10	17-11	

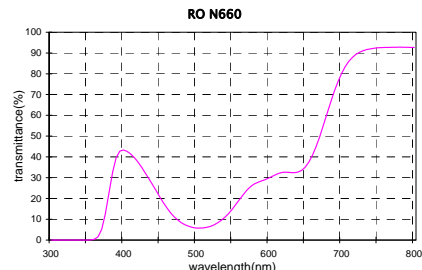


The naming nomenclature Standard filter w/o Tape  
**F3- Color No.-Size Code**

The naming nomenclature Standard filter w/ Tape  
**F3- Color No.-Size Code-T**

F3 type filters have 1.0mm thickness as default and other thickness are available. Please contact with sales department for detailed.

- Note:**
1. Colors shown are approximate actual colors of filters.
  2. Noritake selected a popular module as a sample in the spec; the filter may be suited to other modules.
  3. Reference only.



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