

BC-430

Red-emitting Premium Plastic Scintillator

BC-430 emits in the red region which makes it ideal for use with silicon photodiodes and red-enhanced photomultiplier tubes.

This premium plastic scintillator is available as sheets, rods and thin films in the same range of sizes as all other SGCD organic scintillators.

Scintillation Properties –

Light Output, %Anthracene	45
Rise Time, ns	3.2
Decay Time, ns	16.8
Pulse Width, FWHM, ns	17.7
Wavelength of Maximum Emission, nm	580

Atomic Composition –

No. of H Atoms per cc	5.23×10^{22}
No. of C Atoms per cc	4.72×10^{22}
Ratio H:C Atoms	1.108
No. of Electrons per cc	3.36×10^{23}

General Technical Data –

Base	Polyvinyltoluene
Density	1.032 g/cc
Refractive Index	1.58
Coefficient of Linear Expansion 7.8×10^{-5} , below 67°C
Vapor Pressure	May be used in vacuum
Solubility	Soluble in aromatic solvents, chlorinated solvents, acetone, etc. Unaffected by water, dilute acids, lower alcohols, alkalis and pure silicone fluids or grease.
Light Output	At +60°C = 95% of that at +2°C. Independent of temperature from -60°C to +20°C
Softening Point	70°C



USA

Saint-Gobain Crystals
17900 Great Lakes Parkway
Hiram, OH 44234
Tel: (440) 834-5600
Fax: (440) 834-7680

Europe

Saint-Gobain Crystals
104 Route de Larchant
BP 521
77794 Nemours Cedex, France
Tel: 33 (1) 64 45 10 10
Fax: 33 (1) 64 45 10 01

P.O. Box 3093
3760 DB Soest
The Netherlands
Tel: 31 35 60 29 700
Fax: 31 35 60 29 214

Japan

Saint-Gobain KK, Crystals Division
3-7, Kojimachi, Chiyoda-ku,
Tokyo 102-0083 Japan
Tel: 81 (0) 3 3263 0559
Fax: 81 (0) 3 5212 2196

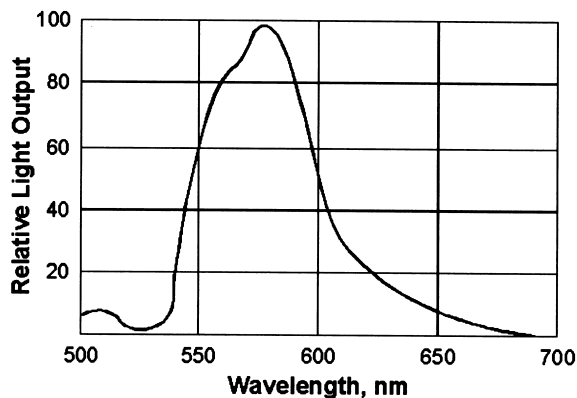
China

Saint-Gobain (China) Investment Co., Ltd.
15-01 CITIC Building
19 Jianguomenwai Ave.
Beijing 100004 China
Tel: 86 (0) 10 6513 0311
Fax: 86 (0) 10 6512 9843

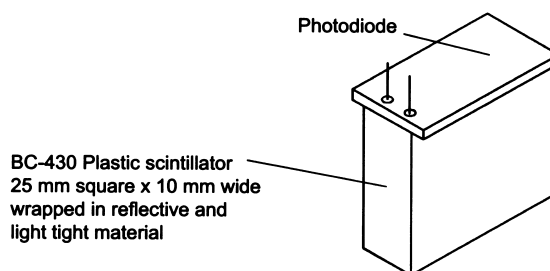
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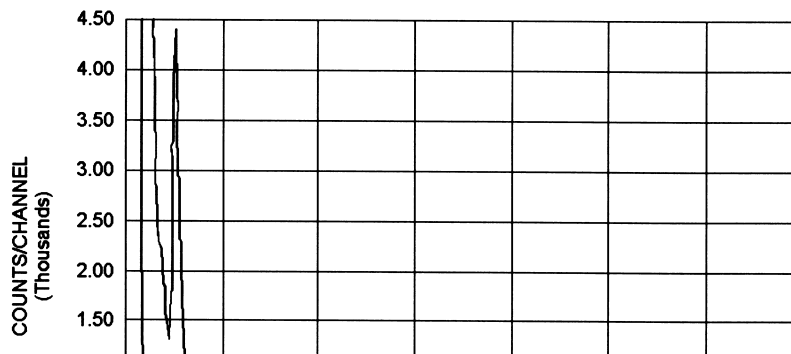
Emission Spectrum –



Application Example –



1CmX2.5CmX2.5Cm BC-430 (580nm) 1CmX2Cm PIN DIODE



Manufacturer reserves the right to alter specifications.

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