

EXTENDED LIFE PLASTIC™

OVERVIEW

Extended Life Plastic keeps your portal functioning at the coldest temperatures.

Plastic deployed outdoors such as in portal monitors are exposed to humid summers and cold winters, which can cause the plastic to fog. Hermetically packaged plastic remedies this situation while maintaining constant low energy performance.

Saint-Gobain has incorporated a revolutionary barrier film along with the standard wrapping to provide an effective seal against vapor penetration.

KEY FEATURES

- Sensitivity to gamma rays is unaffected
- Proven reliability with hygroscopic scintillators
- Incorporated into existing product designs with minimal dimensional changes



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TECHNICAL SPECIFICATION

- PVT Scintillator wrapped in reflector
- Scintillator sealed against moisture intrusion with Saint-Gobain wrap
- Outer surface wrapped in light sealing black vinyl
- Photomultiplier tube (PMT) hermetically sealed to the scintillator

WARRANTY

- Two year warranty for workmanship
- Five year warranty for no fogging of the PVT plastic scintillator
- Warranty applies for exposure to temperature range of -40°C to +55°C

DESIGN CONSIDERATIONS AND PRODUCT OPTIONS

In preparing a portal monitor panel for field use, the photo-sensor is an integral part of the hermetic package. Saint-Gobain's team of engineers will be happy to work with your staff to develop the optimum solution.

Potential solutions include:

- Field replaceable PMT assemblies that complete the hermetic package
- Temporary hermetic seals that are removed by the end user to install proprietary readout packages

Note: customer is responsible for maintaining integrity of moisture barrier when mounting



Saint-Gobain Crystals

www.crystals.saint-gobain.com

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(01-20)