

SPECIFICATION TESTED

Project No: PR463339
Class: 4910
Product Name: TCI CrossFilm™ PTFE
Product Type: Cleanroom Material
Name of Listing Company: Textiles Coated International
Address of Listing Company: 200 Bouchard Street
Manchester NH 03103
United States
Customer ID: 268268-1
Customer website: <https://www.textilecoated.com/>

Prepared by



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Reviewed by



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Phillip J. Smith
VP, Manager of Materials

10 October 2023

Date

1 INTRODUCTION

1.1 Textiles Coated International requested Specification Testing of their TCI CrossFilm™ PTFE material listed in Section 1.4 to determine if it meets the requirements of the standard listed in Section 1.3.

1.2 This report may be freely reproduced only in its entirety and without modification.

1.3 Standard

Title	Number	Issue Date
Examination Standard for Cleanroom Materials	4910	November 2020

1.4 Listing

The product will appear in the Approval Guide, an on-line resource of FM Approvals, as follows:

TCI CrossFilm™ PTFE

Product	Class of Work	Listing Country	Certification Type
TCI CrossFilm™ PTFE	4910	United States of America	Specification Tested (Not FM Approved)

Trade Name	Thickness	Material
TCI CrossFilm™ PTFE	0.005 in. – 0.1 in. (0.127 mm – 2.54 mm)	PTFE

Formulations and specifications are on file at FM Approvals.

2 DESCRIPTION

The TCI CrossFilm™ PTFE is described as follows:

TCI CrossFilm™ PTFE is a rigid PTFE material. The material is available in thicknesses of 0.005 in. – 0.1 in. (0.127 mm – 2.54 mm) and in custom sizes, for use in various applications.

3 EXAMINATIONS AND TESTS

3.1 Samples were witnessed and then submitted for examination and testing. The samples were considered to be representative of standard production and were examined or tested as indicated below. All data is on file at FM Approvals along with other documents and correspondence applicable to this program.

3.2 All testing and analysis considered appropriate was conducted and verified to be in compliance with the Standards defined in Section 1.3.

3.3 See Table 1 below for details.

Table 1

Section	Test Name		Justification/Comments
4.1	Fire Propagation Apparatus Testing	Ignition Test	Not conducted – material thinner than 6 mm (0.25 in.)
		Combustion Test	
		Fire Propagation Test	
4.2	8 ft. (2.4 m) Parallel Panel Testing		Conducted successfully
4.3	Infrared Spectra for Quantitative Analysis (FTIR)		Conducted
4.4	Infrared Thermal Desorption Gas Chromatography Mass Spectrometry (TD/GC/MS)		Not conducted – not applicable to product type

4 MARKING

4.1 Markings on the product, or if not possible due to size, on its packaging or label accompanying the product, shall include the following information:

- name and address of the manufacturer or marking traceable to the manufacturer.
- date of manufacture or code traceable to date of manufacture or lot identification
- model number, size, rating, capacity, etc. as appropriate

4.2 When hazard warnings are needed, the markings should be universally recognizable.

4.3 The model or type identification shall correspond with the manufacturer’s catalog designation and shall uniquely identify the product as Specification Tested to FM 4910.

4.4 Specification Tested to FM 4910 shall be displayed visibly and permanently on the product and/or packaging as appropriate and in accordance with FM Approvals marking requirements.

5 REMARKS

Continued Listing as Specification Tested in the Approval Guide is based upon fabrication and construction of TCI CrossFilm™ PTFE in accordance with this Specification Tested Report, satisfactory field experience and continued use of acceptable quality control procedures as determined by Surveillance Audits.

6 SURVEILLANCE AUDIT

The manufacturing facilities at the following location shall be visited on a routine basis. The facility processes and quality control procedures in place have been determined to be satisfactory to manufacture products identical to that Specification Tested. An FM Approved Products/Specification-Tested Revision Request Form shall be submitted to FM Approvals for requesting to manufacture products at any additional or alternate manufacturing facilities which are not listed below.

Audit Location

200 Bouchard Street
 Manchester, NH 03103
 United States

7 MANUFACTURER'S RESPONSIBILITIES

- 7.1 Documentation that is applicable to this Specification Tested Listing is on file at FM Approvals and listed in the Documentation File, Section 8, of this report. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The FM Approved Products/Specification-Tested Revision Request Form, shall be forwarded to FM Approvals as notice of proposed changes.
- 7.2 The manufacturer shall supply all instructions, materials, equipment, and assistance necessary for the complete, proper and satisfactory installation, use and testing of the TCI CrossFilm™ PTFE. Complete documentation shall be furnished and shall pertain to the specific TCI CrossFilm™ PTFE supplied.
- 7.3 In accordance with the Master Agreement, the manufacturer shall make full and immediate disclosure to FM Approvals of all information concerning any defect in, or potential hazard of, the product or service manufactured or provided by the Customer which is Specification Tested by, or being examined by, FM Approvals. The manufacturer shall make all necessary arrangements for the investigation of complaints / anomalies applicable to this listing and shall keep records of all complaints / anomalies including actions taken.

8 DOCUMENTATION

The following document describes the TCI CrossFilm™ PTFE and is on file at FM Approvals.

Document Title	Issue Date
Surveillance Audit Manual, Manchester, NH, USA	October 2023

9 CONCLUSION

The product described in section 1.4 meets FM Approvals requirements. Since a duly signed Master Agreement is on file for this manufacturer, Specification Tested Listing is effective the date of this report.

PROJECT DATA RECORD: PR463339