



# **Technical Information**

## **3D Laminate (RTF)**

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## 3-D Laminate (3DL) Technical Data

### Product Description

Thermofoil is wood-grain or solid decorative rigid PVC foil with upper side UV cured Polyurethane based lacquer and reverse side coated with polyurethane based primer. Films made with the highest quality materials for flat lamination, membrane pressing and/or vacuum forming.

Chemical Composition:

> 90% Polyvinylchloride

< 10% Organic and Inorganic Pigments

Hazard Identification: Not Applicable

### Stain Resistance\*

Reagent	Score	Effect
Acetone	0	ME
Ammonia	0	N
Hot Coffee	0	N
Hot Tea	0	N
Tomato Catsup	1	N
Yellow Mustard	3	N
Iodine	4	ME
Wax Crayon		N
White Out	4	SE
Marker	3	N
Ball Point Ink	3	N
Cola Beverage	0	N
100-Proof Alcohol	0	N
Vinegar	0	N
Dry Erase Marker	1	N
Nail Polish	0	SL
Lipstick	1	N
Olive Oil	0	N
Distilled Water	0	N
10% Bleach Mix	0	N

#### Effect:

See NRRI/TR-2005/33 for full description

N= No Effect

SL= Slight Effect

ME= Moderate Effect

SE= Severe Effect

#### Cleaning Steps:

See NRRI/TR-2005/33 for full description

0= Removed with water

1= 25 cycles spray cleaner or sponge

2= 25 cycles baking soda plus spray cleaner on brush

3= Acetone and cotton ball

4= Bleach plus cotton ball

### Test Methods

Test Name	Value
<b>Scratch Test</b>	
Hoffman	467
#0000 Steel Wool	Slight Effect
<b>Mar Testing</b>	
Baseline Mar	Visual Detectability: Difficult Lowest Load to mar: 100 g
45° Mar	Visual Detectability: Easy Lowest Load to mar: 2,333 g
<b>Impact Resistance</b>	
0.5 lbs (225g)	Height: 53.5 in In lbs: 26.8
4.5 lbs	Height: 31.5 in In lbs: 141.8
<b>Taber Abrasion</b>	
500 Cycles	Mean: 15 mg Range: 12-17 mg
1,000 Cycles	Mean: 27 mg Range: 25-30 mg

### Accelerated Weathering

#### Color Data Information:

Instrument	X-Rite Color i7 (d/8° sphere)	
Color Scale	CIE L*a*b	
Illuminant	D65	
Observer	10°	
Duration	450 hours	
Delta		
E*	C*	H*
1.28	-0.27	1.23

### Product Dimensions

Overall Width: 1420 – 1450mm (56 – 57")  
Usable Width: 1250 – 1400mm (49 – 55")  
Thickness: 0.3 – 0.5mm (10 – 20 mil)  
Roll Length: 50 – 200 meters

\*Evaluation of Commercial Medical Cleaners available upon request.

\*\*European Directive 2011/6/-EU Annex II (RoHS); recasting 2002/95/EC available upon request

# Material Safety Data Sheet

## 3D Rigid Vinyl Film



Revised Date: February 2016

### Section 1- Product Information

<b>Product Identification</b>	3D Rigid Vinyl Film
<b>Product Use</b>	Internal and External usage as kitchen surfaces, tables, doors, wall coverings, etc.
<b>Company Information</b>	SpecTrim Building Products 3433 Marshall Lane Bensalem, PA 19020
<b>Emergency Contact</b>	SpecTrim Building Products 1+215-245-8704

### Section 2- Composition/ Information of Ingredients

<b>Chemical Description</b>	Polyvinyl Chloride Upper side coated with polyurethane based lacquer Reverse side coated with polyurethane primer
<b>Dangerous Components</b>	None

### Section 3- Hazards Identification

<b>Route of Entry</b>	None for product as sold
<b>Potential Health Effects</b>	None for product as sold

### Section 4- First Aid Measures

<b>Skin Contact</b>	If contact with hot (melt) product occurs: Wash with plenty of water, treat as for thermal burn.
<b>Eye Contact</b>	After contact with hot (melt) product: Immediately flush eyes with water for several minutes at least, get medical attention.
<b>Inhalation</b>	If PVC decomposes due to overheating or in contact with fire: Remove affected persons to fresh air. In case of irritation of respiratory system or if feeling unwell after prolonged exposure, get medical attention.
<b>Ingestion</b>	Not an expected route of entry with normal use of product

## Section 5- Fire Fighting Measures

<b>Flash Point</b>	N/A
<b>Flash Point Method</b>	N/A
<b>Flammable Limits</b>	Not considered to be flammable
<b>Burning Rate</b>	N/A
<b>Auto-ignition Temperature</b>	N/A
<b>Extinguishing Media</b>	Water spray, powder, carbon dioxide, foam
<b>Protective Clothing</b>	Wear fire protection equipment appropriate for the surrounding fire Use breathing apparatus plus protective gloves

## Section 6- Accidental Release Measures

<b>Leak or Spill Procedures</b>	N/A
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## Section 7- Handling and Storage

<b>Handling Procedures and Equipment</b>	Avoid overheating the material, it decomposes to gaseous components. Thermal degradation does not occur at low temperatures, but becomes faster at higher temperatures.
<b>Storage Requirements</b>	Take precautionary measures to avoid fire hazard. Store in normal room conditions without direct exposure to sunlight.

## Section 8- Exposure Control/ Protective Equipment

<b>Specific Engineering Controls</b>	It is advisable to install local exhaust ventilation in the vicinity of processing machines in all areas where melt or high temperature processing is carried out
<b>Personal Protective Equipment</b>	Safety glasses, protective footwear, and gloves recommended when handling hot material
<b>Exposure Guidelines / Others</b>	

## Section 9- Physical and Chemical Properties

<b>Physical State/ Appearance</b>	Coated films in rolls of sheets
<b>Color</b>	From clear to black as required
<b>Odor</b>	Odorless
<b>Change of State</b>	Softening point: >70°C Glass transition temperature: approx. 80°C Ignition temperature: >400°C Density: 1.25-1.45 g/cm <sup>3</sup>
<b>Solubility of PVC</b>	N/A
<b>Fire Supporting Properties</b>	N/A
<b>pH Value</b>	N/A
<b>Viscosity</b>	N/A

## Section 10- Stability and Reactivity

<b>Chemical Stability</b>	This product is stable
<b>Conditions to Avoid</b>	Overheating

## Section 11- Toxicological Information

<b>Effects of Acute Exposure</b>	No specific data
<b>Effects of Chronic Exposure</b>	No specific data
<b>Irritancy of Product</b>	No specific data
<b>Skin Sensitization</b>	No specific data
<b>Toxicity to Humans</b>	No testing has been done on the toxicity of this product to humans. This product is not expected to be toxic to humans
<b>Toxicity to Animals</b>	No testing has been done on the toxicity of this product to animals. This product is not expected to be toxic to animals
<b>Carcinogenic</b>	No specific data
<b>Mutagenicity</b>	No specific data

## Section 12- Ecological Information

<b>Eco-toxicity</b>	Not expected to be eco-toxic
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## Section 13- Disposal Consideration

Dispose of according to Federal , State and local regulations
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## Section 14- Transport

No hazardous material according to transport regulations (ADR, RID, ADNR, IMDG, IATA).
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## Section 15- Regulatory Information

*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.*

### *Notice for Reader*

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named manufacturer nor any of its subsidiaries assumes liability whatsoever for accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

## Laminate Performance Evaluation of SpecTrim Laminates

Technical Report NRRI/TR-2014/46

November 2014

Project 1026 10414 20109 1000004083

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<b>Prepared for:</b>	SpecTrim Building Products 3433 Marshall Lane Bensalem, PA 19020
<b>Objective:</b>	To evaluate the performance of three decorative laminate sample provided by SpecTrim Building Products
<b>Materials:</b>	1) Woodgrain vinyl thermal foil 2) White vinyl thermal foil 3) Woodgrain paper laminate
<b>Samples:</b>	SpecTrim Building Products provided one roll of each of the decorative laminates for testing. Medium density fiberboard (MDF) sample panels were laminated in the membrane press at NRRI. Three 4-by-25 in. laminated samples were cut into twelve 4-by-6 in. specimens for scratch and mar evaluations. Four 8-by-12 in samples were laminated for impact testing and chemical stain resistance and cleanability testing. Three pieces of each laminate were reserved for Taber abrasion testing.
<b>Testing:</b>	Scratch testing (Hoffman stylus, #0000 steel wool), mar testing (needle stylus – baseline and 45° inspection), impact resistance, Taber abrasion, and chemical stain resistance and cleanability testing per NRRI Technical Report NRRI/TR-2005/33.
<b>Results:</b>	A summary of the testing results is shown in Tables 1-7.

Table 1.--Hoffman scratch and #0000 steel wool scratch results for SpecTrim laminates.

Laminate Type	Lowest Hoffman Scratch (grams)	#0000 Steel Wool Scratch	
		Scratch	Scratch Effect on Appearance
Wood grain vinyl	467 (400-500)	SL	SL
White vinyl	233 (200-300)	SL	SL
Wood grain paper	300	SL	SL

Note: Data range is shown in parentheses.  
 Three specimens were tested for each laminate type.  
 SL-slight effect  
 M-moderate effect  
 S-severe effect

Table 2.--Baseline and 45° inspection mar results for SpecTrim laminates.

Laminate Type	Baseline Mar		45° Mar	
	Lowest load to mar (grams)	Visual Detectability	Lowest load to mar (grams)	Visual Detectability
Wood grain vinyl	100	Difficult	2,333 (2,200-2,400)	Easy
White vinyl	300	Difficult	1,033 (900-1,100)	Easy
Wood grain paper	633 (600-700)	Difficult	700 (500-900)	Easy

Note: Data range is shown in parentheses.  
 Three specimens were tested for each laminate type.  
 Baseline mar is defined as any deformation visible from any angle.  
 45° mar is defined as any deformation visible under fluorescent lighting, when viewed from 12 inches at a 45° angle.



Table 3.--Impact resistance test results for SpecTrim laminates.

Laminate Type	Film Thickness (mil)	Maximum Drop Height w/o Failure			
		0.5 lb (225 g) weight		4.5 lb weight	
		Height (in)	In-lbs	Height (in)	In-lbs
Wood grain vinyl	12	53.5	26.8	31.5	141.8
White vinyl	12	53.5	26.8	53.5	240.8
Wood grain paper	3.5	53.5	26.8	8	36

Note: Two specimens were tested for each laminate type.

Table 4.--Taber abrasion resistance for SpecTrim laminates.

Laminate Type	Film Thickness (mil)	Weight Loss from CS-17 wheels at 500 g			
		500 cycles		1,000 cycles	
		Mean (mg)	Range (mg)	Mean (mg)	Range (mg)
Wood grain vinyl	12	15	12-17	27	25-30
White vinyl	12	18	15-24	38	30-45
Wood grain paper	3.5	29	26-35	50	46-53

Note: Three specimens were tested for each laminate type.

Table 5.--Chemical resistance scores for the wood grain vinyl laminate from SpecTrim Building Products

Reagent	Wood grain vinyl laminate				
	Sample 1		Sample 2		Comments
	Score	Effect	Score	Effect	
Acetone	0	ME	0	ME	Swelling remains
Household Ammonia	0		0		
Orange Juice	0		0		
Hot Coffee	0		0		
Hot Tea	0		0		
Tomato Catsup	1		1		
Yellow Mustard	3		3		
Iodine	5	ME	3		Stain remains
#2 Pencil	2		2		
Stamp Pad Ink	5	SE	5	SE	Stain remains
Wax Crayon	2		2		
Shoe Polish	5	SE	2		
Kool-Aid	5	ME	5	SE	Stain remains
White-Out	5	SE	3		
Permanent Marker	3		3		
Ball Point Pen Ink	3		3		
Cola Beverage	0		0		
100-Proof Alcohol	0		0		
Vinegar	0		0		
Nail Polish	0	SL	0	SL	Slight swelling remains
Lipstick	1		1		
Dry Erase Marker	1		2		
Olive Oil	0		0		
Lemon Juice	0		0		
Grape Juice	0		0		
Distilled Water	0		0		
10 % Bleach Solution	0		0		
<b>TOTAL</b>	<b>41</b>	<b>SE</b>	<b>35</b>	<b>SE</b>	<b>Average score = 38/SE</b>

Note: The total score is based on cleaning steps per NRRI Technical Report NRRI/TR-2005/33.  
Effect column: Blank - No Effect, ME - Moderate Effect, SE - Severe Effect

Table 6.--Stain resistance cleaning scores for the white vinyl laminate from SpecTrim Building Products

Reagent	White Vinyl Laminate				
	Sample 1		Sample 2		Comments
	Score	Effect	Score	Effect	
Acetone	0	ME	0	SE	Swelling remains
Household Ammonia	0		0		
Orange Juice	0		0		
Hot Coffee	0		0		
Hot Tea	1		1		
Tomato Catsup	1		1		
Yellow Mustard	5	SE	5	SE	Stain remains
Iodine	5	SE	5	SE	Stain remains
#2 Pencil	2		5	SE	Reagent remains
Stamp Pad Ink	5	SE	5	SE	Stain remains
Wax Crayon	5	SE	5	SE	Reagent remains
Shoe Polish	5	SE	5	SE	Reagent remains
Kool-Aid	5	SE	5	SE	Stain remains
White-Out	5	SE	3		Reagent remains
Permanent Marker	5	SE	5	SE	Stain remains
Ball Point Pen Ink	5	SE	5	SE	Reagent remains
Cola Beverage	0		0		
100-Proof Alcohol	0		0		
Vinegar	0		0		
Nail Polish	0		0		
Lipstick	2		0		
Dry Erase Marker	2		0		
Olive Oil	0		0		
Lemon Juice	0		0		
Grape Juice	3		3		
Distilled Water	0		0		
10 % Bleach Solution	0		0		
<b>TOTAL</b>	<b>56</b>	<b>SE</b>	<b>53</b>		<b>Average score = 55/SE</b>

Note: The total score is based on cleaning steps per NRRI Technical Report NRRI/TR-2005/33.  
Effect column: Blank - No Effect, ME - Moderate Effect, SE - Severe Effect

Table 7.-- Stain resistance cleaning scores for the wood grain paper laminate from SpecTrim Building Products

Reagent	Wood grain paper laminate				
	Sample 1		Sample 2		Comments
	Score	Effect	Score	Effect	
Acetone	0		0	SL	Slight swelling
Household Ammonia	0		0		
Orange Juice	0		0		
Hot Coffee	1		0		
Hot Tea	1		0		
Tomato Catsup	1		1		
Yellow Mustard	1		1		
Iodine	5	SE	5	ME	Stain remains
#2 Pencil	2		2		
Stamp Pad Ink	5	SE	5	SE	Stain remains
Wax Crayon	2		2		
Shoe Polish	2		2		
Kool-Aid	5	SE	5	ME	Stain remains
White-Out	2		2		
Permanent Marker	1		1		
Ball Point Pen Ink	2		5		
Cola Beverage	0		0		
100-Proof Alcohol	0		0		
Vinegar	0		0		
Nail Polish	0		0		
Lipstick	1		2		
Dry Erase Marker	1		1		
Olive Oil	5	ME	5	SE	Reagent remains (soaked in)
Lemon Juice	0		0		
Grape Juice	5	ME	5	ME	Stain remains
Distilled Water	0		0		
10 % Bleach Solution	0		0		
<b>TOTAL</b>	<b>42</b>	<b>SE</b>	<b>44</b>	<b>SE</b>	<b>Average score = 43/SE</b>

Note: The total score is based on cleaning steps per NRRI Technical Report NRRI/TR-2005/33.  
Effect column: Blank - No Effect, ME - Moderate Effect, SE - Severe Effect

Evaluation of Commercial Medical Cleaners on Woodgrain Laminate  
NRRI Technical Report NRRI/TR-2015/29  
June 2015  
Project 1026 10414 20109 1000004083

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**Prepared for:** SpecTrim Building Products  
3433 Marshall Lane  
Bensalem, PA 19020

**Objective:** To evaluate one SpecTrim Building Products vinyl laminate for resistance to staining or physical change from exposure to various medical cleaners.

**Samples:** SpecTrim Building Products supplied 3 sample pieces of a wood grain printed vinyl laminate for evaluation. The laminate was adhered to 12- by 20-in. medium density fiber board (MDF) panels.

**Materials:** Autumn Walnut – 14 mil – woodgrain printed vinyl laminate.

**Testing:** Two 2 ml drops of each cleaner (reagent), see Table 1, were placed onto the surface of the laminated specimen. Each spot of liquid reagent was covered with a plastic cup and allowed to sit for 24 hours before removing the reagents.

A clean sponge and clean tap water were used to wipe the medical cleaners from the specimen surface. The specimen was then misted with clean water and dried with a soft clean towel. All visible surface damage was noted. Reagent number was noted for visible stains or surface impairments due to contact with the cleaner. Each sample was reviewed after 1 week to determine if any affected areas had changed.

**Grading:** All affected areas were graded according to the severity of damage caused by the reagent.

No Effect (NE) – the reagent was removed with no impairment to the surface appearance as a direct result of being in contact with the reagent for the allotted time.

Moderate Effect (ME) - a difficult-to-perceive stain or surface impairment visible from most angles and directions.

Severe Effect (SE) - an easy-to-perceive stain or surface impairment visible from all angles and directions.

Terms used to describe the surface impairments when visible:

Slight changes in gloss or very difficult-to-see impairments were left undescribed.

Rupture – a breaking apart of material or internal separation of multi-layered laminates.

Cracking - material was cracked through to the substrate but no rupture

Whitening - micro cracking of material that does not extend beyond the surface of the laminate, no cracking or rupture.

Swelling – a raised surface that may or may not affect the texture of the laminate, can be slight, moderate, or severe.

### **Results:**

Table 2 shows the testing results for the 24 hours exposure. None of the medical cleaners evaluated caused any rupturing, cracking, whitening, or swelling of the laminate material.

Table 1.--Medical cleaners used during this evaluation, listed in order of application.

<b>Number</b>	<b>Medical Cleaner</b>	<b>Manufacturer</b>
1	Bleach (5 parts water to 1 part bleach)	Clorox
2	Citrace® germicide	Caltec, Ind.
3	Clorox® germicidal wipes	Clorox
4	Dispatch® spray with bleach	Caltec, Ind.
5	Lysol® spray disinfectant	Reckitt Benckiser
6	Precise™ hospital cleaner	Medline Industries, Inc.
7	Virex® II 256 cleaner – diluted per manufacturer's instructions	Diversey, Inc.
8	Virex® II 256 cleaner – full strength.	Diversey, Inc.
9	Bleach-Rite® disinfecting spray	Current Technologies
10	Fade-A-Dyne® stain remover	Fade-a-Dyne
11	Fade-A-Dyne® blood remover	Fade-a-Dyne
12	Asepticare TB-II	Ecolab
13	Cavicide® surface disinfectant	Metrex
14	SaniZide Plus® germicidal solution	Safetec
15	Rescue Sporicidal Gel	Virox
16	Accel Cleaner Concentrate	Virox
17	Accel TB Wipes	Virox
18	Accel Intervention Wipes	Virox
19	Accel Prevention Wipes	Virox
20	Super Sani-Cloth germicidal wipes	PDI
21	Sani-Cloth HB germicidal wipes	PDI
22	Sani-Cloth Plus germicidal wipes	PDI
23	Sani-Cloth AF3 wipes	PDI
24	Sani-Cloth Bleach wipes	PDI
25	Prevantics Swab/Swabstick	PDI

Table 2.--24 hours exposure results for commercial medical cleaners on the SpecTrim Building Products woodgrain laminate.

Medical Cleaner	Laminate material		
	SpecTrim Building Products		
	Specimen 1	Specimen 2	Specimen 3
Bleach 5:1	Moderate SI	Moderate SI	Moderate SI
Citrace® germicide	NE	Moderate SI	Moderate SI
Clorox® germicidal wipes	NE	NE	NE
Dispatch® spray with bleach	Moderate SI	Moderate SI	Moderate SI
Lysol® spray disinfectant	NE	NE	NE
Precise™ hospital cleaner	Moderate SI	Moderate SI	Moderate SI
Virex® II 256 cleaner – diluted per manufacturer’s instructions	NE	NE	NE
Virex® II 256 cleaner – full strength.	NE	NE	NE
Bleach-Rite® disinfecting spray	Moderate SI	Moderate SI	Moderate SI
Fade-A-Dyne® stain remover	Moderate SI	Moderate SI	Moderate SI
Fade-A-Dyne® blood remover	NE	Moderate SI	NE
Asepticare TB-II	NE	NE	NE
Cavicide® surface disinfectant	NE	NE	NE
SaniZide Plus® germicidal sln.	Moderate SI	Moderate SI	Moderate SI
Rescue Sporicidal Gel	NE	Moderate SI	NE
Accel Cleaner Concentrate	Moderate SI	NE	NE
Accel TB wipe	NE	NE	NE
Accel Intervention wipe	NE	NE	NE
Accel Prevention wipe	NE	NE	NE
Super Sani-Cloth germicidal wipe	NE	NE	NE
Sani-Cloth HB germicidal wipe	NE	NE	NE
Sani-Cloth Plus germicidal wipe	NE	NE	NE
Sani-Cloth AF3 wipe	NE	NE	NE
Sani-Cloth Bleach wipe	NE	NE	NE
Prevantics swab/swabstick	NE	NE	NE

Note: Inspection results after water rinse. Specimen was viewed at a multiple angles under fluorescent lights. SI=surface imperfection.





## Test Report

No. 3923579-CH05

Date: January 18, 2016

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**SpecTrim Building Products**  
**3433 Marshall Lane**  
**Bensalem, PA 19020**

The following sample(s) was/were submitted  
and identified by/on behalf of the client as:

**STF Summer Flame**

Sample Received Date:

**1/6/2016**

Testing Period:

**1/7/2016 – 1/15/2016**

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Comment
1. European Directive 2011/65/EU Annex II (RoHS); recasting 2002/95/EC	PASS

Signed for and on behalf of SGS North America, Inc.

Manoj Aluri  
Chemist, Chemistry Laboratory

Prepared By:

Veronica Marrero  
Laboratory Operations Lead, Chemistry Laboratory

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**1. European Directive 2011/65/EU Annex II (RoHS); recasting 2002/95/EC:**

Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method : With reference to IEC 62321:2013 and 62321:2008. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry, Chromium (VI) was analyzed by UV-Visible Spectroscopy and PBB, PBDE were analyzed by Gas Chromatography – Mass Spectrometry (GC-MS).

Test Item	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Cadmium (Cd)	ND	2	100
Lead (Pb)	ND	2	1000
Mercury (Hg)	ND	2	1000
Hexavalent Chromium (Cr(VI))	ND*	2	1000
<b>Sum of PBBs</b>	ND	--	1000
Monobromobiphenyl	ND	5	--
Dibromobiphenyl	ND	5	--
Tribromobiphenyl	ND	5	--
Tetrabromobiphenyl	ND	5	--
Pentabromobiphenyl	ND	5	--
Hexabromobiphenyl	ND	5	--
Heptabromobiphenyl	ND	5	--
Octabromobiphenyl	ND	5	--
Nonabromobiphenyl	ND	5	--
Decabromobiphenyl	ND	5	--
<b>Sum of PBDEs</b>	ND	--	1000
Monobromodiphenyl ether	ND	5	--
Dibromodiphenyl ether	ND	5	--
Tribromodiphenyl ether	ND	5	--
Tetrabromodiphenyl ether	ND	5	--
Pentabromodiphenyl ether	ND	5	--
Hexabromodiphenyl ether	ND	5	--
Heptabromodiphenyl ether	ND	5	--
Octabromodiphenyl ether	ND	5	--
Nonabromodiphenyl ether	ND	5	--
Decabromodiphenyl ether	ND	5	--
<b>Comment</b>	PASS	--	--

*\*Total Chromium analysis by ICP-MS and/or ICP-OES was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.*

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## Test Report

No. 3923579-CH05

Date: January 18, 2016

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### Sample Description:

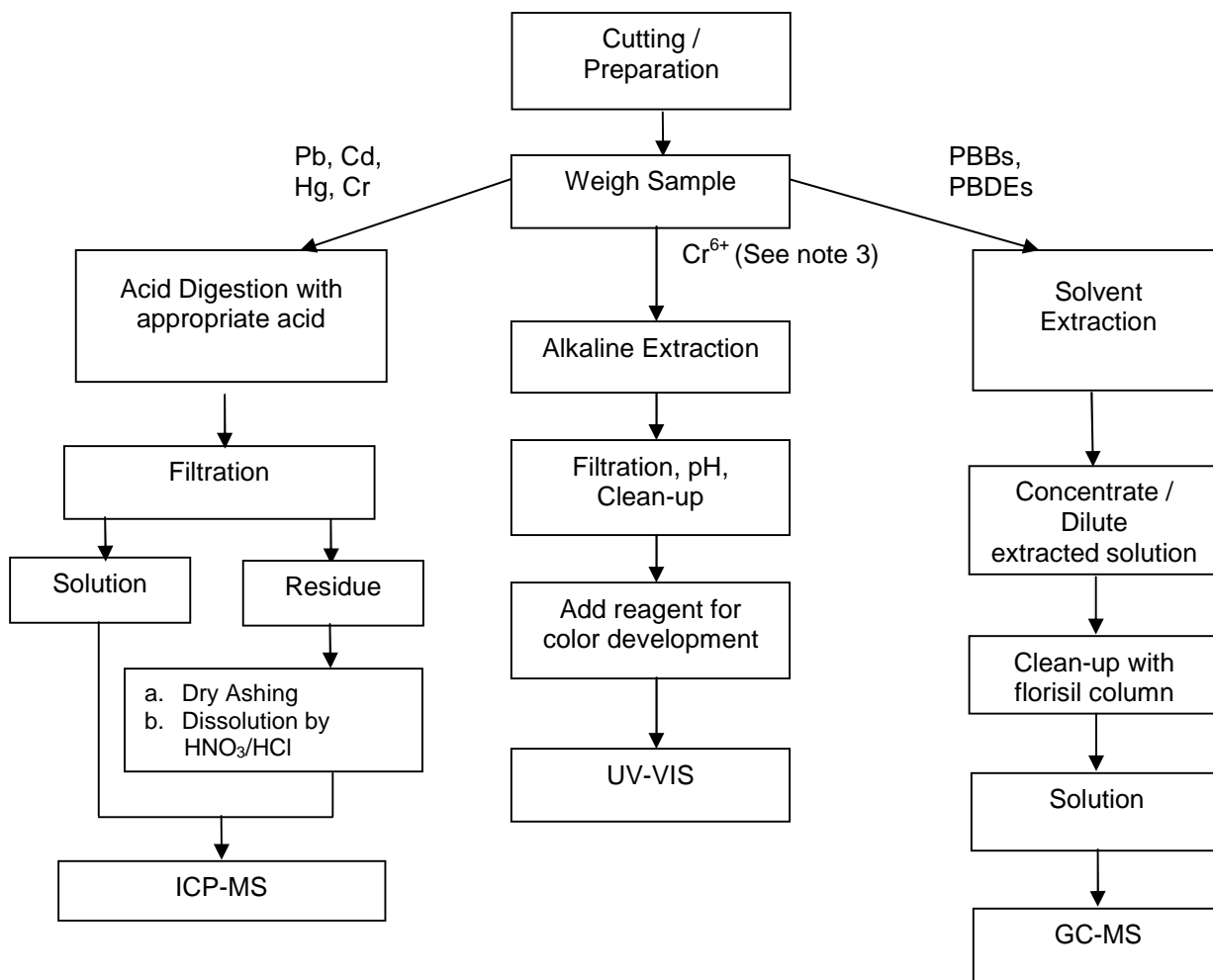
1. STF Summer Flame

### Note :

1. ND = Not Detected = denoted less than reporting limit

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## Flowchart for RoHS:



- Note : 1. The Cr, Cd, Pb and Hg contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.  
2. Cr<sup>6+</sup> is performed only when total Cr is detected

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INSTRUMENTAL COLOR REPORT

This inspection report contains only findings and results arrived at after employing the specific test procedures listed in the Test Confirmation. It does not constitute a recommendation for, endorsement of, or certification of the product or material tested. Q-Lab Test Services makes no warranty, expressed or implied, except that the test has been performed, and a report prepared, based upon the specimen or specimens furnished by the client. Extrapolation of data from the specimen or specimens relating to the batch or lot from which it was obtained may not correlate and should be interpreted accordingly with extreme caution. We assume no responsibility for variations in quality, composition, appearance, performance, or other feature of similar subject matter produced by other persons or under conditions over which we have no control. This report shall not be reproduced except in full without the written approval of Q-Lab Test Services.

CLIENT: SpecTrim Building Products  
ADDRESS: 3433 Marshall Lane  
Bensalem, PA 19020

TEST NO: STF-2  
REPORT NO: 3E

ATTN: Amir Bakhtyari

DATE: 3 February 2016  
DATE EXPOSED: 12 January 2016

YOUR REFERENCE: PO# 165017

DURATION: 450 Hours  
TYPE: Accelerated weathering  
SPECIMENS: 1 plastic film

CONTENTS: Cover Sheet: Page 1 Report: Page 2

NOTES: Please refer to the legend on our website located at [www.myweathertest.com](http://www.myweathertest.com) for an explanation of the values and scales used in this report.

Inspected By: Marie Jones *Marie Jones*

COLOR DATA INFORMATION:  
INSTRUMENT: X-Rite Color i7 (d/8° sphere)

Approved By: Susan C. Manchester *Susan C. Manchester*

COLOR SCALE: CIE L\*a\*b\*  
ILLUMINANT: D65  
OBSERVER: 10°  
SPEC. IN/OUT: Included



INSTRUMENTAL COLOR REPORT

TEST NO: STF-2

REPORT NO: 3E

DATE: 3 February 2016

Specimen ID	Original			Present			Difference			Delta		
	L*	a*	b*	L*	a*	b*	L*	a*	b*	E*	H*	
Dover White	96.21	-0.39	3.04	95.96	-1.46	2.38	-0.25	-1.07	-0.66	1.28	-0.27	1.23