

May 20, 2020

1

UL 181C

**Outline of Investigation for Non-Metal Joining Accessories for Flexible Air  
Ducts and Air Connectors**

**Issue Number 1**

**May 20, 2020**

***Summary of Topics***

***This is the first issue of the Outline of Investigation for Non-Metal Joining Accessories for Flexible Air Ducts and Air Connectors, UL 181C.***

***Non-metal joining accessories, such as collars and sleeves, covered by these requirements are intended to join and connect flexible air ducts and air connectors that comply with the requirements of UL 181, Factory-Made Air Ducts and Air Connectors.***

***These requirements cover characteristics of the non-metal joining accessories, including: material, installation, mold growth and humidity, temperature, heat release and smoke, impact, pressure, tension, torsion, and leakage.***

UL's Outlines of Investigation are copyrighted by UL. Neither a printed nor electronic copy of an Outline of Investigation should be altered in any way. All of UL's Outlines of Investigation and all copyrights, ownerships, and rights regarding those Outlines of Investigation shall remain the sole and exclusive property of UL.

COPYRIGHT © 2020 UL LLC

This is a preview. [Click here to purchase the full publication.](#)

No Text on This Page

## CONTENTS

### INTRODUCTION

1	Scope .....	5
2	Glossary .....	5
3	Units of Measurement .....	5
4	Undated References .....	5

### CONSTRUCTION

5	General .....	6
	5.1 Dimensions .....	6
	5.2 Polymeric Materials .....	6

### PERFORMANCE

6	Flame Resistance Test .....	6
7	Installation Test .....	7
8	Mold Growth and Humidity Test .....	7
9	Temperature Test .....	7
	9.1 General .....	7
	9.2 Low temperature .....	7
	9.3 High temperature .....	8
10	Smoke and Heat Release Tests .....	8
11	Impact Test .....	8
12	Pressure Test .....	9
13	Tension Test .....	9
14	Torsion Test .....	10
15	Leakage Test .....	10
16	Gaskets and Seals .....	11

### MARKING

17	General .....	11
----	---------------	----

### INSTRUCTIONS

18	Installation Instructions .....	11
----	---------------------------------	----