

3M Advanced Materials Division

3M™ Dyneon™ Cure-in-Place Gasket CIPG 1951

Features and Benefits

- Provides excellent chemical resistance (except to amines, bases & polar organic solvents.)
- Helps create a barrier and extends fuel cell service life.
- Contains no silicones.
- Roll format enables automation & scaling resulting in improved productivity in gasket application.
- Has a smooth surface and lies flat for a level fuel stack.

Note: Data in this document are not for specification purposes.

Typical Physical Properties (Not for specification purposes)

Property	Test Method	Value
Adhesion to Steel	ASTM D3330	8 oz./in width (0.9 N/cm)
Tensile strength at break	ASTM D3759	40 lbs/in. width
Elongation at break	ASTM D3759	200%
PTFE backing thickness	ASTM D2652	5.0 mils (0.13 mm)
Total gasket thickness	ASTM D2652	7.5 mils (0.19 mm)

Product Description

3M™ Dyneon™ Cure-in-Place Gasket CIPG 1951 consists of a PTFE film backing with a fluoroelastomer adhesive layer.

Product Form and Packaging

Backing: Extruded PTFE (polytetrafluoroethylene)

Adhesive: Fluoroelastomer

Release liner: Polyester, non-silicone liner

Color: Tan

Standard Roll Dimensions:
1.36 in (wide) × 36 or 108 yds (long)
(34.5 mm × 32.9 or 98.8 m)

Shelf Life

To maintain best performance, store product at recommended storage conditions and use product within two years from date of manufacture.

Storage Recommendations

The storage condition of CIPG 1951 is at a temperature of 35°-50°F (2-10°C).

The adhesive layer may take on a white, crystalline appearance during storage at recommended conditions. This does not affect the specified properties.

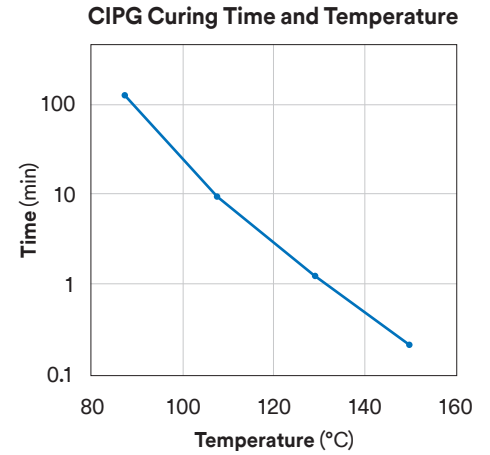
Safety and Toxicology

This is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, be sure to read and follow all precautions and directions for use contained in the product label and the Safety Data Sheet. General handling/processing precautions include:

1. Wear protective gloves when handling.
2. Wash thoroughly after handling.
3. Follow your company guidelines for donning of the proper personal protection equipment.

For optimal sealing performance, the gasket needs to be cured after application to the substrate. Recommended curing conditions are noted in the chart below:

Curing temperature		Curing time (min)
(°C)	(°F)	
90	194	107
110	230	9.7
130	266	1.2
150	302	0.2



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