# **Chemistry Report for Case # P-21-0015 (Version name 1)**

### General

Submitter: Designer Molecules, Inc.			
Contact: Kenneth Kirschenman	Contact Telephone No.: (858) 348 1122, Ext 4704		
TS No.: 20KK5E			
Chemist: Butler, T	Contractor Support:		
PV Init (kg/yr):	PV Max (kg/yr):		
Binding Option:	Exposure-Based Review:		
Manufacture:	Import:		

### **Chemical ID**

CAS Number:2419899-87-7

Chemical Name:Amines, C36-alkylenedi-, polymers with 5,5'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[1,3-isobenzofurandione] and 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[2-aminophenol]

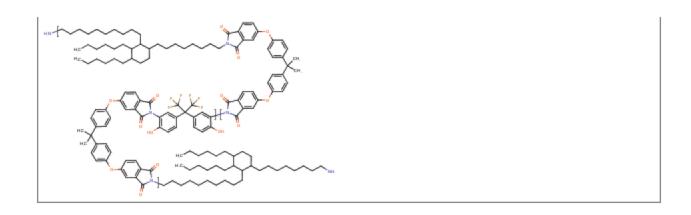
Trade Name:FM51-21, Imide Linked Polymer

IES Order:459670

Generic Name:not CBI

Chemistry Assessor:Tristan Butler

### **Chemical Structure**



## **Physical Chemical Properties**

Molecular Formula: C, H, F, N, O Molecular Weight: 37230.0

% < **500:**0.0 % < **1000:**0.0

MP: MP Estimate:Dec. >300

BP: BP Pressure:

**BP Estimate:** 

VP (Torr): VP Estimate (Torr):<0.000001

Water Soluble Estimate (g/L): Water Soluble Estimate (g/L):<0.000001

Log P: Log P Estimate:

Physical State — Neat:

Solid

Physical State — Manuf:

Solution: % PMN substance in

Physical State — Processing:

Dispersion: % PMN substance in adhesive

formulation

Physical State — End Use:

Solid: PMN substance entrained in dried adhesive on

silicon wafer

## Additional Chemical Info: NAVG MW = 37230 with 0% < 500 and 0% < 1000by multi-angle light scattering (MALS) analysis. There is also a GPC report, but there is no molecular weight analysis provided in it. Submitted Properties: Yellow-amber solid; decomposes above 300°C, with increased weight loss above 400°C (TGA); flash point > 250°C (Sub.Est.). An FTIR spectrum is provided. The MSDS is for a solution of the PMN substance in methoxybenzene (anisole). Estimated Properties: VP < 0.000001 torr (High MW polymer); WS < 0.000001 g/L (high mw polymer with hydrophobic feedstocks). Amine FGEW = , assuming terminal amine groups.

### Uses

Consumer Use?
Intended Uses (ICB):
Intended use: Resin for temporary bonding adhesive applied to the backs of semiconductor
wafers, to facilitate mechanical grinding of the wafers to reduce their thickness
Amine FGEW =
Analogues (same use)
Patents (same use): none.
Other Uses:
Analogues (other use)
Analogues (same use and other use)
<u> </u>
Patents (other use) none

## **Reaction Description**

 1		



# Pollution Prevention Analysis(P2 Analysis:)

None.

# Analogs

# Comments/Telephone Log

Attachments	Update/Upload Time	Update/Upload By	
P-21-0015.mol	11/09/2020 11:02	Robert Meyers	

### **Historic Documents**

## **Current Version Comments**

Comment	<b>Update/Upload Time</b>	Update/Upload By
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