



Apex Microtechnology Materials Substance Report

Model: PA164PQ
RoHS Complaint: Yes

Print: 03/13/2024
Lead Free: Yes

Die Substances

	Total Weight (g)
Aluminum	5.57E-05
Arsenic	5.53E-08
Boron	5.33E-09
Copper	9.18E-07
Phosphorus	5.03E-06
Polyimide	1.10E-04
Quartz	9.25E-05
Silicon	4.51E-02
Silicon Nitride	4.83E-05
Titanium	3.57E-06

Lead Frame Substances

	Total Weight (g)
Carbon Black	2.03E-02
Copper	3.86E+00
Glass Fiber	3.05E-01
Gold	1.04E-03
Iron	1.05E-01
Lead	4.06E-04

Mold Substances

	Total Weight (g)
Carbon Black	2.00E-06
Epoxy resins	3.88E-04
Hardener	3.30E-04
Silica	1.28E-03

Solder substances

	Total Weight (g)
CARBOXYLIC ACID	3.32E-02
POLYGLYCOL ETHER	3.00E-02
ROSIN	3.48E-02
SILVER	3.08E-02
Tetraethylene glycol dimethyl ether	7.20E-03
TIN	8.64E-01



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Wire Substances

Aluminum

Total Weight (g)

4.30E-01

Substances Present in this Model

1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)

Total Weight (g)

2.06E-01

Barium sulfate

1.44E+00

Diethylene glycol monoethyl ether acetate

4.12E-01

Dipentaerythritol hexaacrylate

2.06E-01

Dipentaerythritol pentaacrylate

2.06E-01

Naphthalene

4.12E-02

Petroleum naphtha

4.12E-01

Silicon dioxide

4.12E-01

Aluminum

1.27E+01

Arsenic

5.53E-08

Boron

5.33E-09

Carbon Black

2.04E-02

CARBOXYLIC ACID

3.32E-02

Copper

3.86E+00

Dipropylene glycol methyl ether

2.06E-01

Epoxy resins

3.88E-04

Glass Fiber

3.05E-01

Gold

5.60E-02

Hardener

3.30E-04

Iron

1.05E-01

Lead

4.06E-04

Nickel

1.33E+00

Palladium

4.06E-02

Phosphorus

6.09E-03

POLYGLYCOL ETHER

3.00E-02

Polyimide

1.10E-04

Polymer with 1,4-benzenedicarboxylic acid

6.92E-01

Quartz

9.25E-05

3.48E-02



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ROSIN

Silica

1.28E-03

Silicon

4.51E-02

Silicon Nitride

4.83E-05

SILVER

3.08E-02

Tetraethylene glycol dimethyl ether

7.20E-03

TIN

8.64E-01

Titanium

3.57E-06

Zinc

8.11E-03

Sum of All Substances Present in This Model (g)

2.37E+01