# Dow SiLK™ Y 120 Semiconductor Dielectric Resin

**Category :** Polymer

**Material Notes:**

SiLK™ Y 120 has an average pore size of < 2nm and a range of 1-3 nm, porous SiLK™ resins enables continuous Tantulum PVD barriers for 65 nm technology and beyond. Information provided by Dow

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-SiLK-Y-120-Semiconductor-Dielectric-Resin.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 0.930 g/cc | 0.0336 lb/in³ | |
| Thickness | 0.100 - 0.150 microns | 0.00394 - 0.00591 mil | |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| CTE, linear | 49.0 µm/m-°C<br>@Temperature 50.0 - 410 °C | 27.2 µin/in-°F<br>@Temperature 122 - 770 °F | |
| Decomposition Temperature | >= 500 °C | >= 932 °F | |

| Optical Properties | Metric | English | Comments |
|---|---|---|---|
| Refractive Index | 1.53 | 1.53 | |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Dielectric Constant | 2.2<br>@Frequency 100000 Hz | 2.2<br>@Frequency 100000 Hz | |
| Dielectric Strength | >= 330 kV/mm | >= 8380 kV/in | |

| Descriptive Properties | Value | Comments |
|---|---|---|
| Leakage Current A/cm², max | 0.00000002 | 0.5 MV/cm |
| Leakage Current A/cm², max | 0.00000004 | 1.0 MV/cm |

## Contact Songhan Plastic Technology Co.,Ltd.

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