

## Cookson Group Plaskon® SMT-B-1FX (146.801) Epoxy Molding Compound for PBGAs (discontinued \*\*)

Category : Polymer , Thermoset , Epoxy , Epoxy Molding Compound

### Material Notes:

Test specimens were transfer molded and post cured 4 hours at 175°C. An epoxy molding compound optimized specifically for PBGA applications. It is a reduced catalyst version of SMT-B-1F and provides a 1-2% wire sweep improvement in most applications. It has the same unique resin system as that in SMT-B-1. Faster cure speed for shorter cure times in multi-plunger and automolding equipment; Improved wire sweep performance (lower viscosity); Reduced post mold cure times; Improved warp performance; Lower moisture absorption

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Cookson-Group-Plaskon-SMT-B-1FX-146801-Epoxy-Molding-Compound-for-PBGAs-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Cookson-Group-Plaskon-SMT-B-1FX-146801-Epoxy-Molding-Compound-for-PBGAs-nbspdiscontinued-.php)

| Physical Properties | Metric                         | English                        | Comments                     |
|---------------------|--------------------------------|--------------------------------|------------------------------|
| Density             | 1.91 g/cc                      | 0.0690 lb/in <sup>3</sup>      |                              |
| Viscosity           | 5500 cP<br>@Temperature 175 °C | 5500 cP<br>@Temperature 347 °F | Shimadzu Viscosity, 1000 psi |
| Spiral Flow         | 92.0 - 105 cm                  | 36.2 - 41.3 in                 | 177°C/1000 psi               |

| Mechanical Properties | Metric   | English  | Comments |
|-----------------------|----------|----------|----------|
| Hardness, Shore D     | 81       | 81       |          |
| Flexural Strength     | 68.0 MPa | 9860 psi |          |
| Flexural Modulus      | 15.0 GPa | 2180 ksi |          |

| Thermal Properties              | Metric                               | English                                | Comments |
|---------------------------------|--------------------------------------|----------------------------------------|----------|
| CTE, linear                     | 12.0 µm/m-°C<br>@Temperature 20.0 °C | 6.67 µin/in-°F<br>@Temperature 68.0 °F |          |
| CTE, linear, Transverse to Flow | 57.0 µm/m-°C<br>@Temperature 20.0 °C | 31.7 µin/in-°F<br>@Temperature 68.0 °F |          |
| Thermal Conductivity            | 0.700 W/m-K                          | 4.86 BTU-in/hr-ft <sup>2</sup> -°F     |          |
| Glass Transition Temp, Tg       | 220 °C                               | 428 °F                                 |          |
| Flammability, UL94              | V-0<br>@Thickness 3.20 mm            | V-0<br>@Thickness 0.126 in             |          |
|                                 | V-0                                  | V-0                                    |          |

| Thermal Properties | Metric<br>@ Thickness 3.20 mm | English<br>@ Thickness 0.126 in | Comments |
|--------------------|-------------------------------|---------------------------------|----------|
|--------------------|-------------------------------|---------------------------------|----------|

| Electrical Properties  | Metric                    | English                   | Comments |
|------------------------|---------------------------|---------------------------|----------|
| Electrical Resistivity | 3.20e+16 ohm-cm           | 3.20e+16 ohm-cm           |          |
| Dielectric Constant    | 3.9<br>@Frequency 1000 Hz | 3.9<br>@Frequency 1000 Hz |          |
| Dielectric Strength    | 28.0 kV/mm                | 711 kV/in                 |          |

| Processing Properties  | Metric       | English      | Comments            |
|------------------------|--------------|--------------|---------------------|
| Processing Temperature | 170 - 185 °C | 338 - 365 °F | Molding temperature |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China