

## SABIC Innovative Plastics Lexan® 925 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Lexan® 925 Polycarbonate (PC) resin is a non-filled, injection moldable grade. This non-chlorinated, non-brominated flame retardant PC has a UL V0 rating. Lexan resin 925 is available in various opaque color options and is a general-purpose Lexan® 925 Polycarbonate (PC) resin is a non-filled, injection moldable grade. This non-chlorinated, non-brominated flame retardant PC has a UL V0 rating. Lexan resin 925 is available in various opaque color options and is a general-purpose resin that is an excellent candidate for a wide variety of applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-925-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-925-PC-Asia-Pacific.php)

| Physical Properties         | Metric  | English   | Comments     |
|-----------------------------|---|---|--------------|
| Specific Gravity            | 1.19 g/cc   | 1.19 g/cc   | ASTM D792    |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.0080 cm/cm<br>@Thickness 3.20 mm         | 0.0060 - 0.0080 in/in<br>@Thickness 0.126 in        | SABIC Method |
| Melt Flow                   | 14 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 °C | 14 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 °F | ASTM D1238   |

| Mechanical Properties     | Metric                         | English                            | Comments                          |
|---------------------------|--------------------------------|------------------------------------|-----------------------------------|
| Tensile Strength at Break | 65.0 MPa                       | 9430 psi                           | Type I, 50 mm/min; ASTM D638      |
| Tensile Strength, Yield   | 62.0 MPa                       | 8990 psi                           | Type I, 50 mm/min; ASTM D638      |
| Elongation at Break       | 125 %                          | 125 %                              | Type I, 50 mm/min; ASTM D638      |
| Elongation at Yield       | 6.0 %                          | 6.0 %                              | Type I, 50 mm/min; ASTM D638      |
| Tensile Modulus           | 2.27 GPa                       | 329 ksi                            | 50 mm/min; ASTM D638              |
| Flexural Yield Strength   | 101 MPa                        | 14600 psi                          | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus          | 2.34 GPa                       | 339 ksi                            | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched      | 8.01 J/cm                      | 15.0 ft-lb/in                      | ASTM D256                         |
| Dart Drop, Total Energy   | 73.0 J<br>@Temperature 23.0 °C | 53.8 ft-lb<br>@Temperature 73.4 °F | ASTM D3763                        |

| Thermal Properties | Metric       | English        | Comments |
|--------------------|--------------|----------------|----------|
|                    | 66.6 µm/m-°C | 37.0 µin/in-°F |          |

| Thermal Properties                          | Metric                                       | English                                       | Comments              |
|---|--|---|-----------------------|
| CTE, linear, Parallel to Flow               | @Temperature -40.0 - 40.0 °C                 | @Temperature -40.0 - 104 °F                   | ASTM E 831            |
| CTE, linear, Transverse to Flow             | 66.6 µm/m-°C<br>@Temperature -40.0 - 40.0 °C | 37.0 µin/in-°F<br>@Temperature -40.0 - 104 °F | ASTM E 831            |
| Deflection Temperature at 0.46 MPa (66 psi) | 137 °C<br>@Thickness 3.20 mm                 | 279 °F<br>@Thickness 0.126 in                 | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 126 °C<br>@Thickness 3.20 mm                 | 259 °F<br>@Thickness 0.126 in                 | unannealed; ASTM D648 |
| Vicat Softening Point                       | 143 °C                                       | 289 °F  | Rate B/50; ASTM D1525 |
| UL RTI, Electrical                          | 130 °C                                       | 266 °F  | UL 746B               |
| UL RTI, Mechanical with Impact              | 120 °C                                       | 248 °F  | UL 746B               |
| UL RTI, Mechanical without Impact           | 130 °C                                       | 266 °F  | UL 746B               |
| Flammability, UL94                          | V-0<br>@Thickness 1.10 mm                    | V-0<br>@Thickness 0.0433 in                   | UL 94                 |
| Glow Wire Test                              | 875 °C                                       | 1610 °F                                       | IEC 60695-2-13        |
|   | 960 °C<br>@Thickness 1.00 mm                 | 1760 °F<br>@Thickness 0.0394 in               | IEC 60695-2-12        |

| Electrical Properties                | Metric        | English        | Comments            |
|--------------------------------------|---------------|----------------|---------------------|
| Arc Resistance                       | 0.00 - 60 sec | 0.00 - 60 sec  | Tungsten; ASTM D495 |
| Comparative Tracking Index           | 250 - 400 V   | 250 - 400 V    | UL 746A             |
| Hot Wire Ignition, HWI               | 30 - 60 sec   | 30 - 60 sec    | UL 746A             |
| High Amp Arc Ignition, HAI           | 15 - 30 arcs  | 15 - 30 arcs   | UL 746A             |
| High Voltage Arc-Tracking Rate, HVTR | >= 150 mm/min | >= 5.91 in/min | UL 746A             |

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