

## SABIC Innovative Plastics Lexan® LS3 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Automotive lens applications. Medium-high viscosity. UV-stabilized. Adhesion to coatings. Transparent colors only.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-LS3-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-LS3-PC-Asia-Pacific.php)

| Physical Properties         | Metric                               | English                              | Comments     |
|-----------------------------|--------------------------------------|--------------------------------------|--------------|
| Specific Gravity            | 1.20 g/cc                            | 1.20 g/cc                            | ASTM D792    |
| Water Absorption            | 0.15 %                               | 0.15 %                               | ASTM D570    |
|                             | @Time 86400 sec                      | @Time 24.0 hour                      |              |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm                | 0.0050 - 0.0070 in/in                | SABIC Method |
|                             | @Thickness 3.20 mm                   | @Thickness 0.126 in                  |              |
| Melt Flow                   | 7.0 g/10 min                         | 7.0 g/10 min                         | ASTM D1238   |
|                             | @Load 1.20 kg,<br>Temperature 300 °C | @Load 2.65 lb,<br>Temperature 572 °F |              |

| Mechanical Properties   | Metric                | English                   | Comments                                         |
|-------------------------|-----------------------|---------------------------|--------------------------------------------------|
| Tensile Strength, Yield | 62.0 MPa              | 8990 psi                  | Type I, 50 mm/min; ASTM D638                     |
| Elongation at Break     | 135 %                 | 135 %                     | Type I, 50 mm/min; ASTM D638                     |
| Flexural Yield Strength | 97.0 MPa              | 14100 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    | 9.07 J/cm             | 17.0 ft-lb/in             | ASTM D256                                        |
| Tensile Impact Strength | 630 kJ/m <sup>2</sup> | 300 ft-lb/in <sup>2</sup> | Type S; ASTM D1822                               |
| Dart Drop, Total Energy | 64.0 J                | 47.2 ft-lb                | Instrumented Impact Energy @ peak;<br>ASTM D3763 |
|                         | 169 J                 | 125 ft-lb                 | SABIC Method                                     |

| Thermal Properties                             | Metric             | English             | Comments              |
|------------------------------------------------|--------------------|---------------------|-----------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 132 °C             | 270 °F              | unannealed; ASTM D648 |
|                                                | @Thickness 6.40 mm | @Thickness 0.252 in |                       |
| UL RTI, Electrical                             | 100 °C             | 212 °F              | UL 746B               |

| UL RTI, Mechanical with Impact<br>Thermal Properties | 100 °C<br>Metric         | 212 °F<br>English          | UL 746B<br>Comments |
|------------------------------------------------------|--------------------------|----------------------------|---------------------|
| UL RTI, Mechanical without Impact                    | 100 °C                   | 212 °F                     | UL 746B             |
| Flammability, UL94                                   | HB<br>@Thickness 1.47 mm | HB<br>@Thickness 0.0579 in | UL 94               |

| Optical Properties    | Metric | English | Comments            |
|-----------------------|--------|---------|---------------------|
| Transmission, Visible | 88 %   | 88 %    | 2.54 mm; ASTM D1003 |

| Electrical Properties                | Metric             | English            | Comments |
|--------------------------------------|--------------------|--------------------|----------|
| Comparative Tracking Index           | 250 - 400 V        | 250 - 400 V        | UL 746A  |
| Hot Wire Ignition, HWI               | 7.0 - 15 sec       | 7.0 - 15 sec       | UL 746A  |
| High Amp Arc Ignition, HAI           | 60 - 120 arcs      | 60 - 120 arcs      | UL 746A  |
| High Voltage Arc-Tracking Rate, HVTR | 25.4 - 80.0 mm/min | 1.00 - 3.15 in/min | UL 746A  |

| Descriptive Properties             | Value | Comments |
|------------------------------------|-------|----------|
| UV-light, water exposure/immersion | F1    | UL 746C  |

## 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