

## SABIC Innovative Plastics Lexan® 943ASR PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

More robust design of standard 900 series flame retardant grade. Internal mold release. UV-stabilized.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-943ASR-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-943ASR-PC-Asia-Pacific.php)

| Physical Properties                | Metric                               | English                              | Comments     |
|------------------------------------|--------------------------------------|--------------------------------------|--------------|
| Specific Gravity                   | 1.21 g/cc                            | 1.21 g/cc                            | ASTM D792    |
| Water Absorption                   | 0.15 %                               | 0.15 %                               | ASTM D570    |
|                                    | @Time 86400 sec                      | @Time 24.0 hour                      |              |
| Moisture Absorption at Equilibrium | 0.35 %                               | 0.35 %                               | ASTM D570    |
| 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                          | 10 g/10 min                          | 10 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                          |
|-------------------------|-----------|---------------|-----------------------------------|
| Hardness, Rockwell R    | 118       | 118           | ASTM D785                         |
| Tensile Strength, Yield | 62.0 MPa  | 8990 psi      | Type I, 50 mm/min; ASTM D638      |
| Elongation at Break     | 90 %      | 90 %          | Type I, 50 mm/min; ASTM D638      |
| Flexural Yield Strength | 91.0 MPa  | 13200 psi     | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus        | 2.24 GPa  | 325 ksi       | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched    | 6.40 J/cm | 12.0 ft-lb/in | ASTM D256                         |

| Thermal Properties                             | Metric             | English                            | Comments              |
|--|--------------------|------------------------------------|-----------------------|
| Thermal Conductivity                           | 0.190 W/m-K        | 1.32 BTU-in/hr-ft <sup>2</sup> -°F | ASTM C177             |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 137 °C             | 279 °F                             | unannealed; ASTM D648 |
|  | @Thickness 6.40 mm | @Thickness 0.252 in                |                       |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 132 °C             | 270 °F                             | unannealed; ASTM D648 |
|  | @Thickness 6.40 mm | @Thickness 0.252 in                |                       |

| Thermal Properties                | Metric             | English              | Comments |
|-----------------------------------|--------------------|----------------------|----------|
| 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-2                | V-2                  | UL 94    |
|                                   | @Thickness 1.47 mm | @Thickness 0.0579 in |          |
|                                   | V-0                | V-0                  | UL 94    |
|                                   | @Thickness 2.99 mm | @Thickness 0.118 in  |          |

| Electrical Properties                | Metric            | English            | Comments            |
|--------------------------------------|-------------------|--------------------|---------------------|
| Arc Resistance                       | 0.00 - 60 sec     | 0.00 - 60 sec      | Tungsten; ASTM D495 |
| Comparative Tracking Index           | 175 - 250 V       | 175 - 250 V        | UL 746A             |
| Hot Wire Ignition, HWI               | 30 - 60 sec       | 30 - 60 sec        | UL 746A             |
| High Amp Arc Ignition, HAI           | 30 - 60 arcs      | 30 - 60 arcs       | UL 746A             |
| High Voltage Arc-Tracking Rate, HVTR | 80.0 - 150 mm/min | 3.15 - 5.91 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