

SABIC Innovative Plastics Lexan® 925AU PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan® 925AU Polycarbonate (PC) resin is a non-filled, injection moldable grade. This non-chlorinated, non-brominated flame retardant PC has an UL-94 V0 rating and is UV stabilized, providing additional weathering capability. Lexan 925AU resin is available in transparent and tinted 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-925AU-PC.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 @Thickness 3.20 mm | 0.0060 - 0.0080 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 13 g/10 min @Load 1.20 kg, Temperature 300 °C | 13 g/10 min @Load 2.65 lb, Temperature 572 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--------------------------------|------------------------------------|-----------------------------------|
| Tensile Strength at Break | 67.0 MPa | 9720 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 | 2.37 GPa | 344 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 | 79.0 J @Temperature 23.0 °C | 58.3 ft-lb @Temperature 73.4 °F | ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|---|--|------------|
| CTE, linear, Parallel to Flow | 68.4 µm/m-°C @Temperature -40.0 - 40.0 °C | 38.0 µin/in-°F @Temperature -40.0 - 104 °F | ASTM E 831 |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|---------------------------------|-----------------------|
| CTE, linear, Transverse to Flow | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | ASTM E 831 |
| Deflection Temperature at 0.46 MPa (66 psi) | 137 °C @Thickness 3.20 mm | 279 °F @Thickness 0.126 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 126 °C @Thickness 3.20 mm | 259 °F @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-2 @Thickness 0.800 mm | V-2 @Thickness 0.0315 in | UL 94 |
| | V-0 @Thickness 3.04 mm | V-0 @Thickness 0.120 in | UL 94 |
| Glow Wire Test | 850 °C | 1560 °F | IEC 60695-2-13 |
| | 960 °C @Thickness 1.00 mm | 1760 °F @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 | 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 |

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