

## SABIC Innovative Plastics Lexan® SLDM310 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Mineral filled Antistatic Polycarbonate, HDT110degC type

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-SLDM310-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-SLDM310-PC-Asia-Pacific.php)

| Physical Properties            | Metric                                                | English                                               | Comments                                |
|--------------------------------|-------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|
| Specific Gravity               | 1.29 g/cc                                             | 1.29 g/cc                                             | ASTM D792                               |
| Water Absorption at Saturation | 0.44 %                                                | 0.44 %                                                | ISO 62                                  |
| Linear Mold Shrinkage, Flow    | 0.0040 - 0.0060 cm/cm<br>@Thickness 3.20 mm           | 0.0040 - 0.0060 in/in<br>@Thickness 0.126 in          | SABIC Method                            |
| Melt Flow                      | 20.8 g/10 min<br>@Load 2.16 kg,<br>Temperature 260 °C | 20.8 g/10 min<br>@Load 4.76 lb,<br>Temperature 500 °F | ASTM D1238                              |
| Melt Index of Compound         | 16 g/10 min<br>@Load 2.16 kg,<br>Temperature 260 °C   | 16 g/10 min<br>@Load 4.76 lb,<br>Temperature 500 °F   | MVR [cm <sup>3</sup> /10 min]; ISO 1133 |

| Mechanical Properties     | Metric   | English   | Comments                                |
|---------------------------|----------|-----------|-----------------------------------------|
| Tensile Strength at Break | 53.0 MPa | 7690 psi  | Type I, 10 mm/min; SABIC - Japan Method |
|                           | 55.0 MPa | 7980 psi  | 50 mm/min; ISO 527                      |
| Tensile Strength, Yield   | 53.0 MPa | 7690 psi  | Type I, 10 mm/min; SABIC - Japan Method |
|                           | 55.0 MPa | 7980 psi  | 50 mm/min; ISO 527                      |
| Elongation at Break       | 66 %     | 66 %      | 50 mm/min; ISO 527                      |
|                           | 190 %    | 190 %     | Type I, 10 mm/min; SABIC - Japan Method |
| Tensile Modulus           | 2.66 GPa | 386 ksi   | 5 mm/min; ASTM D638                     |
|                           | 2.67 GPa | 387 ksi   | 1 mm/min; ISO 527                       |
| Flexural Yield Strength   | 82.0 MPa | 11900 psi | 2 mm/min; ISO 178                       |
|                           | 84.0 MPa | 12200 psi | 1.3 mm/min, 50 mm span; ASTM D790       |
| Flexural Modulus          | 2.50 GPa | 363 ksi   | 1.3 mm/min, 50 mm span; ASTM D790       |

| Mechanical Properties      | Metric<br>2.63 GPa                  | English<br>382 ksi                     | Comments<br>2 mm/min; ISO 178      |
|----------------------------|-------------------------------------|----------------------------------------|------------------------------------|
| Izod Impact, Notched       | 1.08 J/cm                           | 2.02 ft-lb/in                          | ASTM D256                          |
|                            | 0.730 J/cm<br>@Temperature -30.0 °C | 1.37 ft-lb/in<br>@Temperature -22.0 °F | ASTM D256                          |
| Izod Impact, Notched (ISO) | 7.00 kJ/m <sup>2</sup>              | 3.33 ft-lb/in <sup>2</sup>             | 80*10*4; ISO 180/1A                |
| Charpy Impact, Notched     | 0.900 J/cm <sup>2</sup>             | 4.28 ft-lb/in <sup>2</sup>             | Edgew 80*10*4 sp=62mm; ISO 179/1eA |

| Thermal Properties                             | Metric                       | English                       | Comments              |
|------------------------------------------------|------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 108 °C<br>@Thickness 3.20 mm | 226 °F<br>@Thickness 0.126 in | unannealed; ASTM D648 |
| Vicat Softening Point                          | 116 °C                       | 241 °F                        | Rate B/50; ISO 306    |
|                                                | 117 °C                       | 243 °F                        | Rate B/50; ASTM D1525 |

| Electrical Properties | Metric       | English      | Comments  |
|-----------------------|--------------|--------------|-----------|
| Surface Resistance    | 9.00e+11 ohm | 9.00e+11 ohm | ASTM D257 |

## Contact Songhan Plastic Technology Co.,Ltd.

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