

## SABIC Innovative Plastics Lexan® EX1332T PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LEXAN® EX1332T polycarbonate resin, MVR (300C/1.2kg) 2 cm3/10min, high viscosity, branched, extrusion, mold release, UV stabilized, transparent, translucent and opaque colors. Multiwall sheet, Profiles.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Lexan-EX1332T-PC-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-EX1332T-PC-Europe-Africa-Middle-East.php)

| Physical Properties            | Metric                                               | English                                              | Comments                                |
|--------------------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|
| Density                        | 1.20 g/cc                                            | 0.0434 lb/in <sup>3</sup>                            | ISO 1183                                |
| Moisture Absorption            | 0.150 %                                              | 0.150 %                                              | 23°C / 50% RH; ISO 62                   |
| Water Absorption at Saturation | 0.35 %                                               | 0.35 %                                               | ISO 62                                  |
| Linear Mold Shrinkage, Flow    | 0.0050 - 0.0070 cm/cm<br>@Thickness 3.20 mm          | 0.0050 - 0.0070 in/in<br>@Thickness 0.126 in         | SABIC Method                            |
| Melt Index of Compound         | 3.0 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 °C | 3.0 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 °F | MVR [cm <sup>3</sup> /10 min]; ISO 1133 |
|                                | 5.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 300 °C | 5.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 572 °F | MVR [cm <sup>3</sup> /10 min]; ISO 1133 |

| Mechanical Properties        | Metric                                          | English                                             | Comments            |
|------------------------------|-------------------------------------------------|-----------------------------------------------------|---------------------|
| Tensile Strength at Break    | 70.0 MPa                                        | 10200 psi                                           | 50 mm/min; ISO 527  |
| Tensile Strength, Yield      | 65.0 MPa                                        | 9430 psi                                            | 50 mm/min; ISO 527  |
| Elongation at Break          | >= 70 %                                         | >= 70 %                                             | 50 mm/min; ISO 527  |
| Elongation at Yield          | 7.0 %                                           | 7.0 %                                               | 50 mm/min; ISO 527  |
| Tensile Modulus              | 2.35 GPa                                        | 341 ksi                                             | 1 mm/min; ISO 527   |
| Flexural Yield Strength      | 95.0 MPa                                        | 13800 psi                                           | 2 mm/min; ISO 178   |
| Flexural Modulus             | 2.30 GPa                                        | 334 ksi                                             | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO)   | 75.0 kJ/m <sup>2</sup>                          | 35.7 ft-lb/in <sup>2</sup>                          | 80*10*3; ISO 180/1A |
|                              | 55.0 kJ/m <sup>2</sup><br>@Temperature -30.0 °C | 26.2 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | 80*10*3; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | NB                                              | NB                                                  | 80*10*3; ISO 180/1U |

| Mechanical Properties   | Metric                 | English                    | Comments                           |
|-------------------------|------------------------|----------------------------|------------------------------------|
|                         | @Temperature -30.0 °C  | @Temperature -22.0 °F      | 80*10*3; ISO 180/1U                |
| Charpy Impact Unnotched | NB                     | NB                         | Edgew 80*10*3 sp=62mm; ISO 179/1eU |
|                         | NB                     | NB                         | Edgew 80*10*3 sp=62mm; ISO 179/1eU |
|                         | @Temperature -30.0 °C  | @Temperature -22.0 °F      |                                    |
| Charpy Impact, Notched  | 7.00 J/cm <sup>2</sup> | 33.3 ft-lb/in <sup>2</sup> | Edgew 80*10*3 sp=62mm; ISO 179/1eA |
|                         | 5.00 J/cm <sup>2</sup> | 23.8 ft-lb/in <sup>2</sup> | Edgew 80*10*3 sp=62mm; ISO 179/1eA |
|                         | @Temperature -30.0 °C  | @Temperature -22.0 °F      |                                    |

| Thermal Properties                          | Metric                      | English                            | Comments                         |
|---------------------------------------------|-----------------------------|------------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow               | 70.0 µm/m-°C                | 38.9 µin/in-°F                     | ISO 11359-2                      |
|                                             | @Temperature 23.0 - 80.0 °C | @Temperature 73.4 - 176 °F         |                                  |
| Thermal Conductivity                        | 0.200 W/m-K                 | 1.39 BTU-in/hr-ft <sup>2</sup> -°F | ISO 8302                         |
| Deflection Temperature at 1.8 MPa (264 psi) | 130 °C                      | 266 °F                             | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| Vicat Softening Point                       | 149 °C                      | 300 °F                             | Rate B/50; ISO 306               |
|                                             | 150 °C                      | 302 °F                             | Rate B/120; ISO 306              |
| Glow Wire Test                              | 850 °C                      | 1560 °F                            | IEC 60695-2-12                   |
|                                             | @Thickness 1.00 mm          | @Thickness 0.0394 in               |                                  |

| Optical Properties    | Metric    | English   | Comments            |
|-----------------------|-----------|-----------|---------------------|
| Transmission, Visible | 88 - 90 % | 88 - 90 % | 2.54 mm; ASTM D1003 |

| Descriptive Properties            | Value  | Comments       |
|-----------------------------------|--------|----------------|
| Ball Pressure Test, 125°C +/- 2°C | PASSES | IEC 60695-10-2 |

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