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| **Lotte Advanced Materials Starex® GR-4030 ABS, 30% Glass Filled** | |
| **Categories:** | [Polymer](http://www.matweb.com/Search/MaterialGroupSearch.aspx?GroupID=10); [Thermoplastic](http://www.matweb.com/Search/MaterialGroupSearch.aspx?GroupID=12); [ABS Polymer](http://www.matweb.com/Search/MaterialGroupSearch.aspx?GroupID=61); [Acrylonitrile Butadiene Styrene (ABS), 30% Glass Fiber Filled](http://www.matweb.com/Search/MaterialGroupSearch.aspx?GroupID=426) |
| **Material Notes:** | Information provided by Samsung Cheil Industries. |
| **Vendors:** | No vendors are listed for this material. Please [click here](http://www.matweb.com/services/advertising.aspx) if you are a supplier and would like information on how to add your listing to this material. |
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| **Physical Properties** | **Metric** | **English** | **Comments** |
| Specific Gravity | [1.27](http://www.matweb.com/tools/unitconverter.aspx?fromID=43&fromValue=1.27) g/cc | [1.27](http://www.matweb.com/tools/unitconverter.aspx?fromID=43&fromValue=1.27) g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | [0.0010](http://www.matweb.com/tools/unitconverter.aspx?fromID=148&fromValue=0.0010) - [0.0030](http://www.matweb.com/tools/unitconverter.aspx?fromID=148&fromValue=0.0030) cm/cm @Thickness 3.20 mm | [0.0010](http://www.matweb.com/tools/unitconverter.aspx?fromID=140&fromValue=0.0010) - [0.0030](http://www.matweb.com/tools/unitconverter.aspx?fromID=140&fromValue=0.0030) in/in @Thickness 0.126 in | ASTM D955 |
| Melt Flow | [5.4](http://www.matweb.com/tools/unitconverter.aspx?fromID=149&fromValue=5.4) g/10 min @Load 10.0 kg, Temperature 220 °C | [5.4](http://www.matweb.com/tools/unitconverter.aspx?fromID=149&fromValue=5.4) g/10 min @Load 22.0 lb, Temperature 428 °F | ASTM D1238 |
| Ash | 31 % | 31 % | ASTM D5630 |
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| **Mechanical Properties** | **Metric** | **English** | **Comments** |
| Hardness, Rockwell R | 112 | 112 | ASTM D785 |
| Tensile Strength at Break | [98.1](http://www.matweb.com/tools/unitconverter.aspx?fromID=108&fromValue=98.1) MPa | [14200](http://www.matweb.com/tools/unitconverter.aspx?fromID=123&fromValue=14200) psi | 5 mm/min; ASTM D638 |
| Tensile Strength, Yield | [102](http://www.matweb.com/tools/unitconverter.aspx?fromID=108&fromValue=102) MPa | [14800](http://www.matweb.com/tools/unitconverter.aspx?fromID=123&fromValue=14800) psi | 5 mm/min; ASTM D638 |
| Elongation at Break | 2.6 % | 2.6 % | 5 mm/min; ASTM D638 |
| Tensile Modulus | [6.86](http://www.matweb.com/tools/unitconverter.aspx?fromID=45&fromValue=6.86) GPa | [996](http://www.matweb.com/tools/unitconverter.aspx?fromID=78&fromValue=996) ksi | 5 mm/min; ASTM D638 |
| Flexural Strength | [127](http://www.matweb.com/tools/unitconverter.aspx?fromID=108&fromValue=127) MPa | [18400](http://www.matweb.com/tools/unitconverter.aspx?fromID=123&fromValue=18400) psi | 2.8 mm/min; ASTM D790 |
| Flexural Modulus | [7.75](http://www.matweb.com/tools/unitconverter.aspx?fromID=45&fromValue=7.75) GPa | [1120](http://www.matweb.com/tools/unitconverter.aspx?fromID=78&fromValue=1120) ksi | 2.8 mm/min; ASTM D790 |
| Izod Impact, Notched [http://www.matweb.com/images/smallchart.gif](http://www.matweb.com/search/GraphConditionalData.aspx?matguid=6b806c3aeeaf40ab88888c7cba69edb6&propid=443&sigid=14) | [0.637](http://www.matweb.com/tools/unitconverter.aspx?fromID=62&fromValue=0.637) J/cm @Thickness 6.35 mm | [1.19](http://www.matweb.com/tools/unitconverter.aspx?fromID=37&fromValue=1.19) ft-lb/in @Thickness 0.250 in | ASTM D256 |
|  | [0.716](http://www.matweb.com/tools/unitconverter.aspx?fromID=62&fromValue=0.716) J/cm @Thickness 3.17 mm | [1.34](http://www.matweb.com/tools/unitconverter.aspx?fromID=37&fromValue=1.34) ft-lb/in @Thickness 0.125 in | ASTM D256 |
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| **Thermal Properties** | **Metric** | **English** | **Comments** |
| Deflection Temperature at 0.46 MPa (66 psi) | [108](http://www.matweb.com/tools/unitconverter.aspx?fromID=2&fromValue=108) °C @Thickness 6.40 mm | [226](http://www.matweb.com/tools/unitconverter.aspx?fromID=3&fromValue=226) °F @Thickness 0.252 in | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | [103](http://www.matweb.com/tools/unitconverter.aspx?fromID=2&fromValue=103) °C @Thickness 6.40 mm | [217](http://www.matweb.com/tools/unitconverter.aspx?fromID=3&fromValue=217) °F @Thickness 0.252 in | ASTM D648 |
| Vicat Softening Point | [107](http://www.matweb.com/tools/unitconverter.aspx?fromID=2&fromValue=107) °C | [225](http://www.matweb.com/tools/unitconverter.aspx?fromID=3&fromValue=225) °F | B/50; ISO R306 |
|  | [110](http://www.matweb.com/tools/unitconverter.aspx?fromID=2&fromValue=110) °C | [230](http://www.matweb.com/tools/unitconverter.aspx?fromID=3&fromValue=230) °F | B/120; ISO R306 |
| Flammability, UL94 | HB @Thickness 1.50 - 6.00 mm | HB @Thickness 0.0591 - 0.236 in |  |