

**TYPICAL PROPERTIES OF TOYOLAC 920 555**

| Typical Properties                            | Test Method | Test Conditions                          | SI Unit | Typical Value |
|-----------------------------------------------|-------------|------------------------------------------|---------|---------------|
| <b>Physical</b>                               |             |                                          |         |               |
| Specific Gravity                              | ASTM D792   |                                          | -       | 1.09          |
| Mould Shrinkage                               | ASTM D955   |                                          | %       | 0.4 ~ 0.6     |
| <b>Rheological</b>                            |             |                                          |         |               |
| Melt Flow Rate                                | ISO 1133    | 220°C/10kg                               | g/10min | 25            |
| <b>Mechanical</b>                             |             |                                          |         |               |
| Tensile Stress at yield                       | ASTM D638   | at 5mm/min                               | MPa     | 48            |
| Tensile Strain at break                       | ASTM D638   | at 5mm/min                               | %       | 20            |
| Flexural Strength                             | ASTM D790   | at 3mm/min                               | MPa     | 74            |
| Flexural Modulus                              | ASTM D790   | at 3mm/min                               | MPa     | 2160          |
| Rockwell Hardness                             | ASTM D785   | R scale                                  | -       | 115           |
| <b>Impact</b>                                 |             |                                          |         |               |
| Izod Impact Strength,notched                  | ASTM D256   | 12.7x62.5x12.7 <sup>t</sup> mm (23°C)    | J/m     | 108           |
| <b>Thermal</b>                                |             |                                          |         |               |
| HDT (Unannealed) 127x12.7x6.4 <sup>t</sup> mm | ASTM D648   | 1.82MPa Loading, 18.56kg/cm <sup>2</sup> | °C      | 83            |
| <b>Flammability</b>                           |             |                                          |         |               |
| Flammability                                  | UL94        |                                          |         | HB            |
| <b>Light Transmission</b>                     |             |                                          |         |               |
| Light Transmittance                           | ASTM D1003  | 3 <sup>t</sup> mm                        | %       | 88            |
| Haze                                          | ASTM D1003  | 3 <sup>t</sup> mm                        | %       | 2             |

