

# Injection 1013R550A

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## Engineering Plastics

Dry as molded

| Characteristic                        |                | Unit                   | Test method           | Measured value  |
|---------------------------------------|----------------|------------------------|-----------------------|-----------------|
| Mechanical Characteristics            |                |                        |                       |                 |
| Tensile strength                      |                | MPa                    | ISO 527-1,2           | 80              |
| Tensile strain at break               |                | %                      |                       | 3.0             |
| Tensile modulus                       |                | GPa                    |                       | 6.2             |
| Flexural strength                     |                | MPa                    | ISO 178               | 125             |
| Flexural modulus                      |                | GPa                    |                       | 6.0             |
| Charpy notched impact strength        |                | kJ/m <sup>2</sup>      | ISO 179-1/1eA         | 3               |
| Rockwell hardness                     | R.Scale        | -                      | ISO 2039-2            | -               |
|                                       | M.Scale        |                        |                       | -               |
| Thermal Characteristics               |                |                        |                       |                 |
| Melting temperature                   |                | ° C                    | ISO 11357             | 215~225         |
| Coeff. of linear thermal expansion    |                | x10 <sup>-5</sup> /° C | ISO 11359-2           | -               |
| Temperature of deflection under load  | 0.45 MPa       | ° C                    | ISO 75-1,2            | -               |
|                                       | 1.8 MPa        | ° C                    |                       | 100             |
| Electical Characterisitics            |                |                        |                       |                 |
| Volume resistivity                    |                | Ω cm                   | JIS K6911             | -               |
| Electric strength                     |                | kV/mm                  | IEC 60243-1           | -               |
| Relative permittivity                 |                | -                      | IEC 60250             | -               |
| Arc resitance                         |                | s                      | D-495(ASTM)           | -               |
| C.T.I                                 |                | UL index               | UL746A                | -               |
| Others                                |                |                        |                       |                 |
| Density                               |                | g/cm <sup>3</sup>      | ISO 1183-3            | -               |
| Water absorption                      | 23 ° C, 50 %RH | %                      | UBE method            | 2.0             |
| Molding shrinkage                     | MD             | %                      | UBE method(30x100x3t) | 0.4             |
|                                       | TD             |                        |                       | 0.7             |
| Nomenclature accdording to ISO 1874-1 |                |                        |                       | PA6, M, 14-060N |