

# NOVAREX® M7027U

Polycarbonate

Mitsubishi Engineering-Plastics Corp

## Message:

NOVAREX® M7027U is a Polycarbonate (PC) material. It is available in Asia Pacific.

| General Information                               |               |                        |             |
|---------------------------------------------------|---------------|------------------------|-------------|
| Forms                                             | Pellets       |                        |             |
| Physical                                          | Nominal Value | Unit                   | Test Method |
| Density                                           | 1.20          | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)        | 2.90          | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage                                 |               |                        | ISO 294-4   |
| Across Flow                                       | 0.60          | %                      |             |
| Flow                                              | 0.60          | %                      |             |
| Mechanical                                        | Nominal Value | Unit                   | Test Method |
| Tensile Modulus                                   | 2300          | MPa                    | ISO 527-2   |
| Tensile Stress (Yield)                            | 62.0          | MPa                    | ISO 527-2   |
| Tensile Strain (Yield)                            | 6.0           | %                      | ISO 527-2   |
| Nominal Tensile Strain at Break                   | > 50          | %                      | ISO 527-2   |
| Flexural Modulus                                  | 2300          | MPa                    | ISO 178     |
| Flexural Stress                                   | 93.0          | MPa                    | ISO 178     |
| Impact                                            | Nominal Value | Unit                   | Test Method |
| Charpy Notched Impact Strength (23°C)             | 70            | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C)           | No Break      |                        | ISO 179/1eU |
| Thermal                                           | Nominal Value | Unit                   | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 128           | °C                     | ISO 75-2/A  |
| CLTE                                              |               |                        | ISO 11359-2 |
| Flow                                              | 6.5E-5        | cm/cm/°C               |             |
| Transverse                                        | 6.6E-5        | cm/cm/°C               |             |
| Electrical                                        | Nominal Value | Unit                   | Test Method |
| Surface Resistivity                               | > 1.0E+15     | ohms                   | IEC 60093   |
| Volume Resistivity                                | > 1.0E+15     | ohms · cm              | IEC 60093   |
| Electric Strength                                 | 17            | kV/mm                  | IEC 60243-1 |
| Relative Permittivity                             |               |                        | IEC 60250   |
| 100 Hz                                            | 3.10          |                        |             |
| 1 MHz                                             | 3.10          |                        |             |
| Dissipation Factor                                |               |                        | IEC 60250   |
| 100 Hz                                            | 6.0E-4        |                        |             |
| 1 MHz                                             | 9.0E-3        |                        |             |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

