

# RAMSTER PE301G6

Polyethylene Terephthalate

Polyram Ram-On Industries

Message:

30% GLASS-FIBER REINFORCED, HEAT STABILIZED PET FOR INJECTION MOULDING APPLICATIONS.

| General Information                       |                                  |                   |                         |
|-------------------------------------------|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                    | Glass Fiber,30% Filler by Weight |                   |                         |
| Additive                                  | Heat Stabilizer                  |                   |                         |
| Features                                  | Heat Stabilized                  |                   |                         |
| RoHS Compliance                           | RoHS Compliant                   |                   |                         |
| Processing Method                         | Injection Molding                |                   |                         |
| Physical                                  | Nominal Value                    | Unit              | Test Method             |
| Specific Gravity                          | 1.67                             | g/cm <sup>3</sup> | ASTM D792, ISO 1183     |
| Melt Mass-Flow Rate (MFR) (280°C/2.16 kg) | 3.0                              | g/10 min          | ASTM D1238, ISO 1133    |
| Molding Shrinkage                         |                                  |                   |                         |
| Flow                                      | 0.20                             | %                 | ASTM D955               |
| --                                        | 0.20                             | %                 | ISO 2577                |
| Water Absorption                          |                                  |                   |                         |
| Saturation                                | 0.50                             | %                 | ASTM D570               |
| Saturation, 23°C                          | 0.50                             | %                 | ISO 62                  |
| Equilibrium, 23°C, 50% RH                 | 0.20                             | %                 | ASTM D570, ISO 62       |
| Mechanical                                | Nominal Value                    | Unit              | Test Method             |
| Tensile Strength (Yield)                  | 140                              | MPa               | ASTM D638, ISO 527-2    |
| Tensile Elongation (Break)                | 3.0                              | %                 | ASTM D638, ISO 527-2    |
| Flexural Modulus                          | 9000                             | MPa               | ASTM D790, ISO 178      |
| Flexural Strength                         | 200                              | MPa               | ASTM D790, ISO 178      |
| Impact                                    | Nominal Value                    | Unit              | Test Method             |
| Notched Izod Impact                       |                                  |                   |                         |
| 23°C                                      | 100                              | J/m               | ASTM D256               |
| 23°C                                      | 10                               | kJ/m <sup>2</sup> | ISO 180                 |
| Thermal                                   | Nominal Value                    | Unit              | Test Method             |
| Deflection Temperature Under Load         |                                  |                   |                         |
| 0.45 MPa, Unannealed                      | 250                              | °C                | ASTM D648, ISO 75-2/B   |
| 1.8 MPa, Unannealed                       | 220                              | °C                | ASTM D648, ISO 75-2/A   |
| Melting Temperature                       | 254                              | °C                | ISO 11357-3, ASTM D3418 |
| Electrical                                | Nominal Value                    | Test Method       |                         |
| Dielectric Constant (1 MHz)               | 4.00                             | IEC 60250         |                         |
| Flammability                              | Nominal Value                    | Test Method       |                         |

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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

