

# RAMSTER PE322G22

Polyethylene Terephthalate  
Polyram Ram-On Industries

Message:  
22% GLASS FIBER REINFORCED, FLAME RETARDANT PET FOR INJECTION MOULDING APPLICATIONS.

| General Information                       |                                  |                   |                         |
|-------------------------------------------|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                    | Glass Fiber,22% Filler by Weight |                   |                         |
| Additive                                  | Flame Retardant                  |                   |                         |
| Features                                  | Flame Retardant                  |                   |                         |
| Processing Method                         | Injection Molding                |                   |                         |
| Physical                                  | Nominal Value                    | Unit              | Test Method             |
| Specific Gravity                          | 1.57                             | g/cm <sup>3</sup> | ASTM D792, ISO 1183     |
| Melt Mass-Flow Rate (MFR) (280°C/2.16 kg) | 13                               | g/10 min          | ASTM D1238, ISO 1133    |
| Molding Shrinkage                         |                                  |                   |                         |
| Flow                                      | 0.30                             | %                 | ASTM D955               |
| --                                        | 0.30                             | %                 | 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)                  | 100                              | MPa               | ASTM D638, ISO 527-2    |
| Tensile Elongation (Break)                | 2.5                              | %                 | ASTM D638, ISO 527-2    |
| Flexural Modulus                          | 6700                             | MPa               | ASTM D790, ISO 178      |
| Flexural Strength                         | 150                              | MPa               | ASTM D790, ISO 178      |
| Impact                                    | Nominal Value                    | Unit              | Test Method             |
| Notched Izod Impact                       |                                  |                   |                         |
| 23°C                                      | 80                               | J/m               | ASTM D256               |
| 23°C                                      | 8.0                              | 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                       | 226                              | °C                | ASTM D648, ISO 75-2/A   |
| Melting Temperature                       | 260                              | °C                | ISO 11357-3, ASTM D3418 |
| Electrical                                | Nominal Value                    | Unit              | Test Method             |
| Volume Resistivity                        | 1.0E+18                          | ohms · cm         | IEC 60093               |
| Electric Strength                         | 29                               | kV/mm             | IEC 60243-1             |
| Dielectric Constant (1 MHz)               | 3.60                             |                   | IEC 60250               |

| Flammability                 | Nominal Value | Unit | Test Method    |
|------------------------------|---------------|------|----------------|
| Flame Rating (3.00 mm)       | V-0           |      | UL 94          |
| Glow Wire Flammability Index | 960           | °C   | IEC 60695-2-12 |

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