

# RTP 6001-60A

Thermoplastic Elastomer

RTP Company

Message:

RTP 6001-60A is a Thermoplastic Elastomer (TPE) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

| General Information                                |                   |                      |             |
|----------------------------------------------------|-------------------|----------------------|-------------|
| RoHS Compliance                                    |                   | Contact Manufacturer |             |
| Processing Method                                  |                   | Injection Molding    |             |
| Physical                                           | Nominal Value     | Unit                 | Test Method |
| Specific Gravity                                   | 1.16              | g/cm <sup>3</sup>    | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)          | 3.0 to 6.0        | g/10 min             | ASTM D1238  |
| Hardness                                           | Nominal Value     | Unit                 | Test Method |
| Durometer Hardness (Shore A, 10 sec)               | 62                |                      | ASTM D2240  |
| Elastomers                                         | Nominal Value     | Unit                 | Test Method |
| Tensile Stress <sup>1</sup> (100% Strain, 3.18 mm) | 1.48              | MPa                  | ASTM D412   |
| Tensile Strength <sup>2</sup> (Yield, 3.20 mm)     | 6.27              | MPa                  | ASTM D412   |
| Tensile Elongation <sup>3</sup> (Break)            | 830               | %                    | ASTM D412   |
| Tear Strength <sup>4</sup>                         | 27.0              | kN/m                 | ASTM D624   |
| Compression Set <sup>5</sup>                       |                   |                      | ASTM D395B  |
| 23°C, 22 hr                                        | 20                | %                    |             |
| 70°C, 22 hr                                        | 70                | %                    |             |
| Injection                                          | Nominal Value     | Unit                 |             |
| Drying Temperature                                 | 51.7              | °C                   |             |
| Drying Time                                        | 2.0 to 4.0        | hr                   |             |
| Processing (Melt) Temp                             | 182 to 238        | °C                   |             |
| Mold Temperature                                   | 10.0 to 48.9      | °C                   |             |
| NOTE                                               |                   |                      |             |
| 1.                                                 | Die C, 510 mm/min |                      |             |
| 2.                                                 | Die C, 500 mm/min |                      |             |
| 3.                                                 | Die C, 500 mm/min |                      |             |
| 4.                                                 | Die C             |                      |             |
| 5.                                                 | Type 2            |                      |             |

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