

# RTP 6091-70A NATURAL

Thermoplastic Vulcanizate

RTP Company

Message:

PA-6 bondable - manufactured with Santoprene™ TPV technology

| General Information                                |                         |                   |             |
|----------------------------------------------------|-------------------------|-------------------|-------------|
| UL YellowCard                                      | E84658-101225410        | E84658-101225417  |             |
| RoHS Compliance                                    | Contact manufacturer    |                   |             |
| Processing Method                                  | Injection molding       |                   |             |
| Physical                                           | Nominal Value           | Unit              | Test Method |
| Specific Gravity                                   | 0.930                   | g/cm <sup>3</sup> | ASTM D792   |
| Moisture Content                                   |                         | %                 |             |
| Hardness                                           | Nominal Value           | Unit              | Test Method |
| Durometer Hardness (Shore A, 10 sec)               | 70                      |                   | ASTM D2240  |
| Elastomers                                         | Nominal Value           | Unit              | Test Method |
| Tensile Stress <sup>1</sup> (100% Strain, 3.18 mm) | 2.69                    | MPa               | ASTM D412   |
| Tensile Strength <sup>2</sup> (Break, 3.20 mm)     | 4.59                    | MPa               | ASTM D412   |
| Tensile Elongation <sup>3</sup> (Break)            | 330                     | %                 | ASTM D412   |
| Tear Strength <sup>4</sup>                         | 19.3                    | kN/m              | ASTM D624   |
| Compression Set <sup>5</sup>                       |                         |                   | ASTM D395B  |
| 70°C, 22 hr                                        | 47                      | %                 | ASTM D395B  |
| 125°C, 22 hr                                       | 66                      | %                 | ASTM D395B  |
| Flammability                                       | Nominal Value           |                   | Test Method |
| Flame Rating (1.10 mm)                             | HB                      |                   | UL 94       |
| Injection                                          | Nominal Value           | Unit              |             |
| Drying Temperature                                 | 82.2                    | °C                |             |
| Drying Time                                        | 4.0                     | hr                |             |
| Processing (Melt) Temp                             | 263 - 282               | °C                |             |
| Mold Temperature                                   | 35.0 - 71.1             | °C                |             |
| Injection instructions                             |                         |                   |             |
| Desiccant Type Dryer Required.                     |                         |                   |             |
| NOTE                                               |                         |                   |             |
| 1.                                                 | Mouth die C, 510mm/min  |                   |             |
| 2.                                                 | C mold, 500 mm/min      |                   |             |
| 3.                                                 | Mouth die C, 500 mm/min |                   |             |
| 4.                                                 | C mould                 |                   |             |
| 5.                                                 | Type 2                  |                   |             |

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#### Recommended distributors for this material

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