

# RTP 2800 B-45A

Thermoplastic Vulcanizate

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'  
The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.

| General Information                                        |                   |                      |             |
|------------------------------------------------------------|-------------------|----------------------|-------------|
| RoHS Compliance                                            |                   | Contact Manufacturer |             |
| Processing Method                                          |                   | Injection Molding    |             |
| Physical                                                   | Nominal Value     | Unit                 | Test Method |
| Specific Gravity                                           | 1.01              | g/cm <sup>3</sup>    | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 1.9 to 2.2        | %                    | ASTM D955   |
| Moisture Content                                           | < 0.080           | %                    |             |
| Hardness                                                   | Nominal Value     | Unit                 | Test Method |
| Durometer Hardness (Shore A, 10 sec)                       | 45                |                      | ASTM D2240  |
| Elastomers                                                 | Nominal Value     | Unit                 | Test Method |
| Tensile Stress <sup>1</sup>                                |                   |                      | ASTM D412   |
| 50% Strain, 3.18 mm                                        | 0.965             | MPa                  |             |
| 100% Strain, 3.18 mm                                       | 1.31              | MPa                  |             |
| 300% Strain, 3.18 mm                                       | 2.90              | MPa                  |             |
| Tensile Strength <sup>2</sup> (Yield, 3.20 mm)             | 3.45              | MPa                  | ASTM D412   |
| Tensile Elongation <sup>3</sup> (Break)                    | 500               | %                    | ASTM D412   |
| Tear Strength <sup>4</sup>                                 | 15.8              | kN/m                 | ASTM D624   |
| Compression Set <sup>5</sup>                               |                   |                      | ASTM D395B  |
| 23°C, 22 hr                                                | 16                | %                    |             |
| 70°C, 22 hr                                                | 33                | %                    |             |
| Flammability                                               | Nominal Value     |                      | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                |                      | UL 94       |
| Injection                                                  | Nominal Value     | Unit                 |             |
| Drying Temperature                                         | 79.4              | °C                   |             |
| Drying Time                                                | 2.0 to 3.0        | hr                   |             |
| Dew Point                                                  | -17.8             | °C                   |             |
| Processing (Melt) Temp                                     | 193 to 227        | °C                   |             |
| Mold Temperature                                           | 10.0 to 79.4      | °C                   |             |
| Injection Pressure                                         | 68.9 to 103       | MPa                  |             |
| 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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#### Recommended distributors for this material

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