



**Product Data Sheet &  
General Processing Conditions**

**RTP 2899 X 109566  
Thermoplastic Vulcanizate (TPV)  
Flame Retardant  
Halogen Free**



**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM<br/>TEST</b> |
|----------------------------------------------|-----------------------|------------------|----------------------|
| Specific Gravity                             | 1.13                  | 1.13             | D 792                |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0120 - 0.0160 in/in | 1.20 - 1.60 %    | D 955                |

**MECHANICAL**

|                                                            |           |           |        |
|------------------------------------------------------------|-----------|-----------|--------|
| Impact Strength, Izod<br>unnotched 1/8 in (3.2 mm) section | No Break  | No Break  | D 4812 |
| Tensile Strength<br>Break, 20 in/min (500 mm/min)          | 230 psi   | 2 MPa     | D 412  |
| Tensile Elongation<br>Break, 20 in/min (500 mm/min)        | > 200.0 % | > 200.0 % | D 412  |
| Tear Strength, Die C                                       | 50.0 pli  | 8.8 N/mm  | D 624  |
| Compression Set<br>22 h @ 23 °C (73 °F), Method B, Type 2  | 32 %      | 32 %      | D 395  |
| 22 h @ 70 °C (158 °F), Method B, Type 2                    | 53 %      | 53 %      | D 395  |
| Hardness<br>Shore A, 10 s delay                            | 65        | 65        | D 2240 |

**THERMAL**

|                       |               |              |        |
|-----------------------|---------------|--------------|--------|
| Ignition Resistance*  |               |              |        |
| Flammability          | V-0 @ 1/16 in | V-0 @ 1.5 mm | UL94   |
| Limiting Oxygen Index | 29.0 %        | 29.00 %      | D 2863 |

**PROPERTY NOTES**

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

**GENERAL PROCESSING FOR INJECTION MOLDING**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 12000 - 18000 psi | 83 - 124 MPa     |
| Melt Temperature   | 360 - 410 °F      | 182 - 210 °C     |
| Mold Temperature   | 60 - 150 °F       | 16 - 66 °C       |
| Drying             | 2 hrs @ 175 °F    | 2 hrs @ 79 °C    |
| Moisture Content   | 0.03 %            | 0.03 %           |
| Dew Point          | 0 °F              | -18 °C           |