



**Product Data Sheet &  
General Processing Conditions**

**RTP 6091-85A PA12 BLACK  
Speciality Thermoplastic Elastomer  
PA-12 bondable  
manufactured with Santoprene™ TPV  
technology**

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

| <b>PERMANENCE</b> | <b>English</b> | <b>SI Metric</b> | <b>ASTM TEST</b> |
|-------------------|----------------|------------------|------------------|
| Specific Gravity  | 0.97           | 0.97             | D 792            |

**MECHANICAL**

|                                                            |           |           |        |
|------------------------------------------------------------|-----------|-----------|--------|
| Tensile Strength<br>Break, 20 in/min (500 mm/min)          | 1180 psi  | 8 MPa     | D 412  |
| Tensile Elongation<br>Break, 20 in/min (500 mm/min)        | 400.0 %   | 400.0 %   | D 412  |
| Tensile Stress<br>20 in/min (500 mm/min)<br>@ 100 %        | 700.0 psi | 4.8 MPa   | D 412  |
| Tear Strength, Die C                                       | 170.0 pli | 29.8 N/mm | D 624  |
| Compression Set<br>22 h @ 70 °C (158 °F), Method B, Type 2 | 37 %      | 37 %      | D 395  |
| 22 h @ 125 °C (257 °F), Method B, Type 2                   | 58 %      | 58 %      | D 395  |
| Hardness<br>Shore A, 10 s delay                            | 85        | 85        | D 2240 |

**THERMAL**

|                                      |                         |                       |           |
|--------------------------------------|-------------------------|-----------------------|-----------|
| Ignition Resistance*<br>Automotive** | ≤ 4.0 in/min @ 0.080 in | ≤ 102 mm/min @ 2.0 mm | FMVSS 302 |
|--------------------------------------|-------------------------|-----------------------|-----------|

**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.

\*\* Values per RTP Company testing.

**GENERAL PROCESSING FOR INJECTION MOLDING**

|                  | <b>English</b> | <b>SI Metric</b> |
|------------------|----------------|------------------|
| Melt Temperature | 505 - 540 °F   | 263 - 282 °C     |
| Mold Temperature | 95 - 160 °F    | 35 - 71 °C       |
| Drying           | 4 hrs @ 180 °F | 4 hrs @ 82 °C    |
| Moisture Content | < 0.08 %       | < 0.08 %         |

**PROCESSING NOTES**

Desiccant Type Dryer Required.