



**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

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.97	0.97	D 792
MECHANICAL			
Tensile Strength			
Break, 20 in/min (500 mm/min)	1180 psi	8 MPa	D 412
Tensile Elongation			
Break, 20 in/min (500 mm/min)	400.0 %	400.0 %	D 412
Tensile Stress			
20 in/min (500 mm/min)			
@ 100 %	700.0 psi	4.8 MPa	D 412
Tear Strength, Die C	170.0 pli	29.8 N/mm	D 624
Compression Set			
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			
Shore A, 10 s delay	85	85	D 2240

THERMAL

Ignition Resistance*			
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

	English	SI Metric
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.