



**Product Data Sheet &  
General Processing Conditions**

**RTP 6042-50A  
Speciality Thermoplastic Elastomer  
Preliminary Datasheet**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.09	1.09	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0150 - 0.0450 in/in	1.50 - 4.50 %	D 955
<b>MECHANICAL</b>			
Tensile Strength Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	1100 psi	8 MPa	D 412
Tensile Elongation Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	500.0 %	500.0 %	D 412
Tensile Stress Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 50 %	170.0 psi	1.2 MPa	D 412
@ 100 %	220.0 psi	1.5 MPa	D 412
@ 300 %	480.0 psi	3.3 MPa	D 412
Tear Strength, Die C	150.0 pli	26.3 N/mm	D 624
Compression Set			
22 h @ 23 °C (73 °F), Method B, Type 2	20 %	20 %	D 395
22 h @ 70 °C (158 °F), Method B, Type 2	75 %	75 %	D 395
Hardness			
Shore A, 10 s delay	50	50	D 2240

**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.

**GENERAL PROCESSING FOR INJECTION MOLDING**

	<b>English</b>	<b>SI Metric</b>
Melt Temperature	380 - 460 °F	193 - 238 °C
Mold Temperature	70 - 120 °F	21 - 49 °C
Drying	2 - 4 hrs @ 180 °F	2 - 4 hrs @ 82 °C
Moisture Content	< 0.03 %	< 0.03 %
Dew Point	< 0 °F	< -18 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.

28 Apr 2008 SDB

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all

molded articles will have the same properties as those listed.

No information supplied by RTP Company constitutes a warranty regarding product performance or use. Any information regarding performance or use is only offered as suggestion for investigation for use, based upon RTP Company or other customer experience. RTP Company makes no warranties, expressed or implied, concerning the suitability or fitness of any of its products for any particular purpose. It is the responsibility of the customer to determine that the product is safe, lawful and technically suitable for the intended use. The disclosure of information herein is not a license to operate under, or a recommendation to infringe any patents.

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**Product Data Sheet &  
General Processing Conditions**

**RTP 6042-60A  
Speciality Thermoplastic Elastomer  
Preliminary Datasheet**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.11	1.11	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0150 - 0.0450 in/in	1.50 - 4.50 %	D 955
<b>MECHANICAL</b>			
Tensile Strength Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	1200 psi	8 MPa	D 412
Tensile Elongation Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	500.0 %	500.0 %	D 412
Tensile Stress Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 50 %	220.0 psi	1.5 MPa	D 412
@ 100 %	290.0 psi	2.0 MPa	D 412
@ 300 %	570.0 psi	3.9 MPa	D 412
Tear Strength, Die C	190.0 pli	33.3 N/mm	D 624
Compression Set			
22 h @ 23 °C (73 °F), Method B, Type 2	20 %	20 %	D 395
22 h @ 70 °C (158 °F), Method B, Type 2	75 %	75 %	D 395
Hardness			
Shore A, 10 s delay	60	60	D 2240

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**GENERAL PROCESSING FOR INJECTION MOLDING**

	<b>English</b>	<b>SI Metric</b>
Melt Temperature	380 - 460 °F	193 - 238 °C
Mold Temperature	70 - 120 °F	21 - 49 °C
Drying	2 - 4 hrs @ 180 °F	2 - 4 hrs @ 82 °C
Moisture Content	< 0.03 %	< 0.03 %
Dew Point	< 0 °F	< -18 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.

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**Product Data Sheet &  
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**RTP 6042-70A  
Speciality Thermoplastic Elastomer  
Preliminary Datasheet**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.17	1.17	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0100 - 0.0400 in/in	1.00 - 4.00 %	D 955
<b>MECHANICAL</b>			
Tensile Strength Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	2000 psi	14 MPa	D 412
Tensile Elongation Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	500.0 %	500.0 %	D 412
Tensile Stress Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 50 %	330.0 psi	2.3 MPa	D 412
@ 100 %	420.0 psi	2.9 MPa	D 412
@ 300 %	780.0 psi	5.4 MPa	D 412
Tear Strength, Die C	265.0 pli	46.4 N/mm	D 624
Compression Set			
22 h @ 23 °C (73 °F), Method B, Type 2	25 %	25 %	D 395
22 h @ 70 °C (158 °F), Method B, Type 2	80 %	80 %	D 395
Hardness			
Shore A, 10 s delay	70	70	D 2240

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**GENERAL PROCESSING FOR INJECTION MOLDING**

	<b>English</b>	<b>SI Metric</b>
Melt Temperature	380 - 460 °F	193 - 238 °C
Mold Temperature	70 - 120 °F	21 - 49 °C
Drying	2 - 4 hrs @ 180 °F	2 - 4 hrs @ 82 °C
Moisture Content	< 0.03 %	< 0.03 %
Dew Point	< 0 °F	< -18 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.

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