

(+) 18816996168

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Product Data Sheet & General Processing Conditions

RTP 6091-55A NATURAL
Speciality Thermoplastic Elastomer
PA-6 bondable
manufactured with Santoprene™ TPV technology



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.93	0.93	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	425 psi	3 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	300.0 %	300.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	255.0 psi	1.8 MPa	D 412
Tear Strength, Die C	65.0 pli	11.4 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	56 %	56 %	D 395
Hardness			
Shore A, 10 s delay	55	55	D 2240
THERMAL			
Ignition Resistance*			
Flammability	HB @ 0.044 in	HB @ 1.1 mm	UL94

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

	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.

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Product Data Sheet & General Processing Conditions

RTP 6091-55A BLACK
Speciality Thermoplastic Elastomer
PA-6 bondable
manufactured with Santoprene™ TPV technology



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.94	0.94	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	440 psi	3 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	300.0 %	300.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	295.0 psi	2.0 MPa	D 412
Tear Strength, Die C	70.0 pli	12.3 N/mm	D 624
Compression Set			
22 h @ 70 °C (158 °F), Method B, Type 2	35 %	35 %	D 395
22 h @ 125 °C (257 °F), Method B, Type 2	56 %	56 %	D 395
Hardness			
Shore A, 10 s delay	55	55	D 2240
THERMAL			
Ignition Resistance*			
Flammability	HB @ 0.044 in	HB @ 1.1 mm	UL94

PROPERTY NOTES

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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.

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Product Data Sheet & General Processing Conditions

RTP 6091-70A NATURAL
Speciality Thermoplastic Elastomer
PA-6 bondable
manufactured with Santoprene™ TPV technology



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.93	0.93	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	665 psi	5 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	330.0 %	330.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	390.0 psi	2.7 MPa	D 412
Tear Strength, Die C	110.0 pli	19.3 N/mm	D 624
Compression Set			
22 h @ 70 °C (158 °F), Method B, Type 2	47 %	47 %	D 395
22 h @ 125 °C (257 °F), Method B, Type 2	66 %	66 %	D 395
Hardness			
Shore A, 10 s delay	70	70	D 2240
THERMAL			
Ignition Resistance*			
Flammability	HB @ 0.044 in	HB @ 1.1 mm	UL94

PROPERTY NOTES

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

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.

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Product Data Sheet & General Processing Conditions

RTP 6091-70A BLACK
Speciality Thermoplastic Elastomer
PA-6 bondable
manufactured with Santoprene™ TPV technology



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.94	0.94	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	645 psi	4 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	300.0 %	300.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	395.0 psi	2.7 MPa	D 412
Tear Strength, Die C	110.0 pli	19.3 N/mm	D 624
Compression Set			
22 h @ 70 °C (158 °F), Method B, Type 2	44 %	44 %	D 395
22 h @ 125 °C (257 °F), Method B, Type 2	63 %	63 %	D 395
Hardness			
Shore A, 10 s delay	70	70	D 2240
THERMAL			
Ignition Resistance*			
Flammability	HB @ 0.044 in	HB @ 1.1 mm	UL94

PROPERTY NOTES

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

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.

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Product Data Sheet & General Processing Conditions

RTP 6091-85A NATURAL Speciality Thermoplastic Elastomer PA-6 bondable manufactured with Santoprene™ TPV technology

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.93	0.93	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	1025 psi	7 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	440.0 %	440.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	600.0 psi	4.1 MPa	D 412
Tear Strength, Die C	165.0 pli	28.9 N/mm	D 624
Compression Set			
22 h @ 70 °C (158 °F), Method B, Type 2	57 %	57 %	D 395
22 h @ 125 °C (257 °F), Method B, Type 2	77 %	77 %	D 395
Hardness			
Shore A, 10 s delay	83	83	D 2240

PROPERTY NOTES

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

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.

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Product Data Sheet & General Processing Conditions

RTP 6091-85A BLACK
Speciality Thermoplastic Elastomer
PA-6 bondable
manufactured with Santoprene™ TPV technology

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.94	0.94	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	1030 psi	7 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	400.0 %	400.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	625.0 psi	4.3 MPa	D 412
Tear Strength, Die C	160.0 pli	28.0 N/mm	D 624
Compression Set			
22 h @ 70 °C (158 °F), Method B, Type 2	50 %	50 %	D 395
22 h @ 125 °C (257 °F), Method B, Type 2	69 %	69 %	D 395
Hardness			
Shore A, 10 s delay	83	83	D 2240

PROPERTY NOTES

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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.

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Product Data Sheet & General Processing Conditions

RTP 6091 B-60A NATURAL
Speciality Thermoplastic Elastomer
PA-6 bondable
manufactured with Santoprene™ TPV technology

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.93	0.93	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	450 psi	3 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	300.0 %	300.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	340.0 psi	2.3 MPa	D 412
Tear Strength, Die C	100.0 pli	17.5 N/mm	D 624
Hardness			
Shore A, 10 s delay	65	65	D 2240

PROPERTY NOTES

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

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.

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Product Data Sheet & General Processing Conditions

RTP 6091 B-60A BLACK
Speciality Thermoplastic Elastomer
PA-6 bondable
manufactured with Santoprene™ TPV technology

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.94	0.94	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	485 psi	3 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	200.0 %	200.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	355.0 psi	2.4 MPa	D 412
Tear Strength, Die C	100.0 pli	17.5 N/mm	D 624
Hardness			
Shore A, 10 s delay	65	65	D 2240

PROPERTY NOTES

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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.

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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	0.98	0.98	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	1150 psi	8 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	350.0 %	350.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	750.0 psi	5.2 MPa	D 412
Tear Strength, Die C	160.0 pli	28.0 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

PROPERTY NOTES

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

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.