

THERMOPLASTIC ELASTOMER

FEATURES

- Numerous global automotive and UL approvals
- Produced using Santoprene™
 TPV technology
- Weatherable and colorable
- Hardness range 55 to 85 Shore A
- Rubber-like tactile feel

BENEFITS

- Performance and bondability
- Better balance of properties than styrenic TPEs
- Superior thermal properties
- Excellent chemical resistance
- Superior compression set properties
- Standard grades stocked for immediate shipment

Imagine thermoplastic elastomers (TPEs) that bond exceptionally well to nylon substrates during overmolding but offer higher performance than styrenic TPEs... these compounds are available from RTP Company!

RTP Company has licensed the manufacturing rights from ExxonMobil Chemical for their patented, nylon bondable, TPV product line made from Santoprene™ thermoplastic vulcanizate (TPV) TPEs.

Nylabond™ 6091 Series TPV compounds can be overmolded onto rigid nylon substrates to create a soft protective or ergonomic surface that provides a durable and rubbery feel. The bond is a permanent, cohesive bond that can withstand exposure to temperature, various chemicals, and moisture.

By nature of their cross-linked rubber content, TPVs offer desirable properties that result in a higher performance material when compared to styrenic-based TPEs. Key properties include:

- Service temperature range of -60 °F to 255 °F (-51 °C to 125 °C)
- Excellent compression set at both room and elevated temperatures for superior long term sealing performance
- Resistance to a wide range of chemicals

Nylabond[™] 6091 Series TPVs from RTP Company are available in hardness levels from 55 to 85 Shore A. Natural and black grades are stocked for immediate shipment. Our Nylabond[™] 6091 Series TPVs are based on industry-leading technology... available from RTP Company - your global compounder of custom engineered thermoplastics!

Santoprene™ TPV is a trademark of Exxon Mobil Corporation. Nylabond™ is a trademark of RTP Company.

GLOBAL AUTOMOTIVE APPROVALS

TELEPHONE

	Manufacturer Specifications						
	Chrysler	General Motors	Ford	Daimler Benz			
Nylabond™ 6091-55A Black	MSAR-100 AAN	GMW 15817P type 1	SAE J2558 TPV*	DBL 5562			
Nylabond™ 6091-55A NAT							
Nylabond™ 6091-70A Black	MSAR-100 BAN	GMW 15817P type 2	SAE J2558 TPV*	DBL 5562			
Nylabond™ 6091-85A Black	MSAR-100 CAN		SAE J2558 TPV*				
Nylabond™ 6091-85A PA12		GMW 15702 GM Europe LCO					

^{*}LCO available; Ford Motor Company permits use of these materials under appropriate SAE J2558 TPV line call outs.





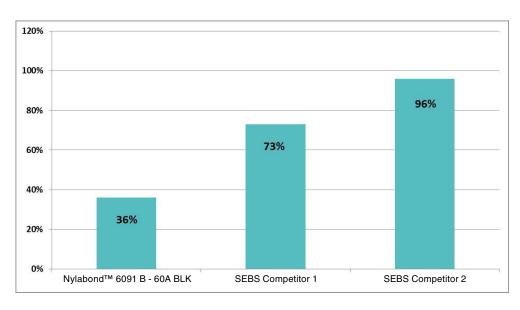
NYLABOND™ THERMOPLASTIC VULCANIZATE

COMPARISON OF TYPICAL COMPOUND PROPERTIES*

RTP Company Compounds	Bonding	Hardness	Specific Gravity	Tensile Strength	Tensile Elongation	Tensile Stress	Tear Strength	Compression Set
Nylabond™ 6091-55A BLK	PA6	55A	0.94	440 PSI 3.0 mpA	300%	259 psi 2.0 MPa	70 pli 12.3 N/mm	35% @ 158 °F/70 °C 56% @ 257 °F/125 °C
Nylabond™ 6091-70A BLK	PA6	70A	0.94	645 PSI 4.4 mpA	300%	395 psi 2.7 MPa	110 pli 19.3 N/mm	44% @ 158 °F/70 °C 63% @ 257 °F/125 °C
Nylabond™ 6091-85A BLK	PA6	83A	0.94	1,030 PSI 7.1 mpA	400%	625 psi 4.3 MPa	160 pli 28.0 N/mm	50% @ 158 °F/70 °C 69% @ 257°F/125°C
Nylabond™ 6091-55A NAT	PA6	55A	0.93	425 PSI 2.9 mpA	300%	255 psi 1.8 MPa	65 pli 11.4 N/mm	37% @ 158 °F/70 °C 56% @ 257 °F/125 °C
Nylabond™ 6091-70A NAT	PA6	70A	0.93	655 PSI 4.5 mpA	330%	390 psi 2.7 MPa	110 pli 19.3 N/mm	47% @ 158 °F/70 °C 66% @ 257 °F/125 °C
Nylabond™ 6091-85A NAT	PA6	83A	0.93	1,025 PSI 7.1 mpA	440%	600 psi 4.1 MPa	165 pli 28.9 N/mm	57% @ 158 °F/70 °C 77% @ 257 °F/125 °C
Nylabond™ 6091-85A PA12 BLK	PA12	85A	0.98	1,150 PSI 7.9 mpA	350%	750 psi 5.2 MPa	160 pli 28.0 N/mm	37% @ 158 °F/70 °C 58% @ 257 °F/125 °C
Nylabond™ 6091 B-60A BLK	PA	65A	0.94	485 PSI 3.3 mpA	200%	355 psi 2.4 MPa	100 pli 17.5 N/mm	36% @ 158 °F/70 °C 50% @ 257 °F/125 °C
Nylabond™ 6091 B-60A NAT	PA	65A	0.93	450 PSI 3.1 mpA	300%	340 psi 2.3 MPa	100 pli 17.5 N/mm	39% @ 158 °F/70 °C 52% @ 257 °F/125 °C

^{*}Data generated from testing performed by RTP Company using similar molding conditions, laboratory conditions, and procedures.

COMPRESSION SET @ 70 °C (ASTM D 395 METHOD B, TYPE 2)



Compression set is the amount of permanent deformation a material sustains after controlled exposure to compression force. Because this test measures the amount of a material that fails to return to normal height, a lower compression set percentage indicates better performance.



RTP COMPANY: YOUR GLOBAL COMPOUNDER OF CUSTOM ENGINEERED THERMOPLASTICS

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