



www.elastocontpe.com

STK40B

Elastocon® STK40B is a black thermoplastic elastomer that has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® STK40B is well suited for consumer goods and industrial applications requiring non-slip/soft dry-touch ergonomics, sound and vibration dampening, improved impact resistance, and U.V. stability. Elastocon® STK40B can be overmolded to PC, ABS, PC/ABS, Acrylic, PS, copolyester, various grades of polyamide, and more.

Elastocon® STK40B is supplied as ready to use pellets in 50 lb. bag quantities.

Typical Physical Properties			
Property	Referenced ASTM Test Method	Test Unit	Typical Value
Hardness	ASTM D2240	Shore A	40
Specific Gravity	ASTM D792	g/cc	1.13
Tensile Properties	ASTM D412		
Tensile Strength	ASTM D412	MPa (psi)	2.96 (429)
100% Modulus	ASTM D412	MPa (psi)	1.38 (200)
Elongation	ASTM D412	%	338

For additional technical, sales, and order assistance:

Elastocon TPE Technologies, Inc.
PO Box 463
Rochester, IL 62563 USA

Sales and Technical Assistance:

Office +1 888 644 8732
Fax +1 888 231 8332
orders@elastocontpe.com
sales@elastocontpe.com
techsupport@elastocontpe.com
www.elastocontpe.com

Design & Processing

Elastocon® thermoplastic elastomers are shear dependent and have been formulated to process on conventional thermoplastic equipment for injection molding, extrusion or blow molding. Our tests have shown that overmolding onto a non-gloss, matte surface finish will help optimize overmold adhesion to the substrate. Be sure to incorporate mechanical interlocks and 1:1 through holes whenever possible when designing two shot components. Feathered edges should always be avoided to ensure adequate and consistent shut off against the substrate, while also eliminating exposed tapered edges that can be subject to adhesive failure.

Suggested Processing Conditions		
Barrel Temperatures	English	SI
Rear	410-420F	210-216C
Front	420-510F	216-266C
Nozzle	440-530F	227-277C
Mold Temperature	80F-120F	27-49C
Back Pressure	75-175 psi	.52-1.21 MPa
Injection Rate	1-5 in/sec	25-127 mm/sec

Elastocon STK40B thermoplastic elastomer compound does not require drying.

Elastocon® thermoplastic elastomers are not compatible with flexible PVC and should not be blended with or used in an application where direct contact is intended.

For additional technical, sales, and order assistance:

Elastocon TPE Technologies, Inc.
PO Box 463
Rochester, IL 62563 USA

Sales and Technical Assistance:

Office +1 888 644 8732
Fax +1 888 231 8332
orders@elastocontpe.com
sales@elastocontpe.com
techsupport@elastocontpe.com
www.elastocontpe.com

DISCLAIMER OF WARRANTY AND LIABILITY: Although the information and recommendations set forth herein ("Information") are believed to be correct. Elastocon, Inc., makes no representations or warranties, express or implied, as to the accuracy or completeness thereof, or of merchantability, fitness for a particular purpose, or of any other nature regarding information, or any product, process or equipment of Elastocon, Inc., or of any other manufacturer or supplier mentioned herein. Nothing contained herein is to be construed as a recommendation to use any product, process, equipment or formulation in conflict with any patent. Elastocon, Inc. makes no representation or warranty, express or implied, that the use thereof will not infringe any patent. Persons receiving information must make their own determination as to its suitability to their purposes prior to use. In no event will Elastocon, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the products, processes or equipment to which the Information refers.

Rev: 2010