

# Elastocon® STK40B

Thermoplastic Elastomer

Elastocon TPE Technologies

## Message:

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, HIPS, copolyester, various grades of polyamide, and more.

General Information			
Features	Shock absorption		
	Noise reduction		
	Impact resistance, good		
	Good UV resistance		
	Soft		
	Excellent appearance		
Uses	overmolding		
	Industrial application		
	Consumer goods application field		
Appearance	Black		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.38	MPa	ASTM D412
Tensile Strength (Yield)	2.96	MPa	ASTM D412
Tensile Elongation (Break)	340	%	ASTM D412
Injection	Nominal Value	Unit	
Rear Temperature	210 - 216	°C	
Front Temperature	216 - 266	°C	
Nozzle Temperature	227 - 277	°C	
Mold Temperature	27.0 - 49.0	°C	
Injection Rate	Moderate-Fast		

Back Pressure	0.520 - 1.21	MPa
---------------	--------------	-----

#### Injection instructions

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. Injection Rate: 1 to 5 in/sec

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

