

# Elastocon® STK40

Thermoplastic Elastomer

Elastocon TPE Technologies

## Message:

Elastocon® STK40 is a colorable thermoplastic elastomer that has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® STK40 is FDA compliant and well suited for consumer goods and industrial applications requiring non-slip/soft touch ergonomics, sound and vibration dampening, improved impact resistance, and U.V. stability. Elastocon® STK40 can be overmolded to PC, ABS, PC/ABS, Acrylic, HIPS and copolyester.

General Information			
Features	Shock absorption Noise reduction Impact resistance, good Good UV resistance Good coloring Soft Excellent appearance		
Uses	overmolding Industrial application Consumer goods application field		
Agency Ratings	FDA not rated		
Forms	Particle		
Processing Method	Blow molding Extrusion Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	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)	1.12	MPa	ASTM D412
Tensile Strength (Yield)	3.56	MPa	ASTM D412
Tensile Elongation (Break)	520	%	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	

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

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