



STK50

Elastocon® STK50 thermoplastic elastomer has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® STK50 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® STK50 can be overmolded to PC, ABS, PC/ABS, Acrylic, and PS.

Elastocon® STK50 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	45
Specific Gravity	ASTM D792	g/cc	.9
Tensile Properties	ASTM D412		
Tensile Strength	ASTM D412	MPa (psi)	4.5 (655)
100% Modulus	ASTM D412	MPa (psi)	1.4 (204)
Elongation	ASTM D412	%	536
Tear Strength	ASTM D624	pli	105

For additional technical, sales, and order assistance:

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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 STK50 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.

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