

Elastocon® STK56PA

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

Elastocon® STK56PA thermoplastic elastomer has been developed for applications that require soft rubber-like properties and a good surface finish. Elastocon® STK56PA is 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® STK56PA can be overmolded to nylon.

General Information			
Features	Shock absorption		
	Noise reduction		
	Impact resistance, good		
	Good UV resistance		
	Soft		
	Excellent appearance		
Uses	overmolding		
	Industrial application		
	Consumer goods application field		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	60		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.20	MPa	ASTM D412
Tensile Strength (Yield)	5.60	MPa	ASTM D412
Tensile Elongation (Break)	190	%	ASTM D412
Injection	Nominal Value	Unit	
Rear Temperature	250 - 260	°C	
Front Temperature	265 - 277	°C	
Nozzle Temperature	277 - 285	°C	
Mold Temperature	82.0 - 104	°C	
Injection Rate	Fast		
Back Pressure	0.345 - 0.689	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.

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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

