Elastocon® STK60

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

Elastocon® STK60 thermoplastic elastomer has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® STK60 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® STK60 can be overmolded to polycarbonate, ABS, PC/ABS, Acrylic, HIPS, and various grades of nylon 6 and 6/6.

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
Filysical	Nominal value		Test Method
	0.920	g/cm³	ASTM D792
Specific Gravity			
Specific Gravity Hardness	0.920	g/cm³	ASTM D792
Specific Gravity Hardness Durometer Hardness (Shore A)	0.920 Nominal Value	g/cm³	ASTM D792 Test Method
Specific Gravity Hardness Durometer Hardness (Shore A) Elastomers	0.920 Nominal Value 64	g/cm³ Unit	ASTM D792 Test Method ASTM D2240
Specific Gravity Hardness Durometer Hardness (Shore A) Elastomers Tensile Stress (100% Strain)	0.920 Nominal Value 64 Nominal Value	g/cm³ Unit Unit	ASTM D792 Test Method ASTM D2240 Test Method
Specific Gravity Hardness Durometer Hardness (Shore A) Elastomers Tensile Stress (100% Strain) Tensile Strength (Yield) Tensile Elongation (Break)	0.920 Nominal Value 64 Nominal Value 2.04	g/cm³ Unit Unit MPa	ASTM D792 Test Method ASTM D2240 Test Method ASTM D412
Specific Gravity Hardness Durometer Hardness (Shore A) Elastomers Tensile Stress (100% Strain) Tensile Strength (Yield)	0.920 Nominal Value 64 Nominal Value 2.04 5.37	g/cm³ Unit Unit MPa MPa	ASTM D792 Test Method ASTM D2240 Test Method ASTM D412 ASTM D412
Specific Gravity Hardness Durometer Hardness (Shore A) Elastomers Tensile Stress (100% Strain) Tensile Strength (Yield) Tensile Elongation (Break)	0.920 Nominal Value 64 Nominal Value 2.04 5.37 570	g/cm³ Unit Unit MPa MPa MPa %	ASTM D792 Test Method ASTM D2240 Test Method ASTM D412 ASTM D412
Specific Gravity Hardness Durometer Hardness (Shore A) Elastomers Tensile Stress (100% Strain) Tensile Strength (Yield) Tensile Elongation (Break)	0.920 Nominal Value 64 Nominal Value 2.04 5.37 570 Nominal Value	g/cm³ Unit Unit MPa MPa MPa % Unit	ASTM D792 Test Method ASTM D2240 Test Method ASTM D412 ASTM D412
Specific Gravity Hardness Durometer Hardness (Shore A) Elastomers Tensile Stress (100% Strain) Tensile Strength (Yield) Tensile Elongation (Break) Injection Rear Temperature	0.920 Nominal Value 64 Nominal Value 2.04 5.37 570 Nominal Value 210 - 216	g/cm³ Unit Unit MPa MPa MPa % Unit	ASTM D792 Test Method ASTM D2240 Test Method ASTM D412 ASTM D412
Specific Gravity Hardness Durometer Hardness (Shore A) Elastomers Tensile Stress (100% Strain) Tensile Strength (Yield) Tensile Elongation (Break) Injection Rear Temperature Front Temperature	0.920 Nominal Value 64 Nominal Value 2.04 5.37 570 Nominal Value 210 - 216 216 - 266	g/cm³ Unit Unit MPa MPa % Unit °C °C	ASTM D792 Test Method ASTM D2240 Test Method ASTM D412 ASTM D412

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 consistant 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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