

## AuroraFlex™ STK40

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

### General Information

#### Product Description

STK40 is a colorable thermoplastic elastomer that has been developed for applications that require ultra soft rubber-like properties and a good surface finish. STK40 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. STK40 can be over molded to PC, ABS, PC/ABS, Acrylic, PET, PS, copolyester, various grades of polyamide, and more.

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Impact Resistance • Good Surface Finish	• Soft • Sound Damping	• UV Stabilized • Vibration Damping
Uses	• Consumer Applications	• Industrial Applications	• Overmolding
Appearance	• Colors Available		
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.962		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	189	psi	ASTM D412
Tensile Strength (Break)	638	psi	ASTM D412
Tensile Elongation (Break)	470	%	ASTM D412
Tear Strength	116	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	40		ASTM D2240

### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	410 to 421	°F
Front Temperature	421 to 511	°F
Nozzle Temperature	441 to 531	°F
Mold Temperature	81 to 120	°F
Back Pressure	75.4 to 175	psi

