

**AuroraFlex™ STK40B**

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*
**General Information**
**Product Description**

STK40B is a black thermoplastic elastomer that has been developed for applications that require ultra soft rubber-like properties and a good surface finish. STK40B is well suited for consumer goods and industrial applications requiring non-slip/soft dry-touch ergonomics, sound and vibration dampening, improved impact resistance, and U.V. stability. STK40B can be overmolded to PC, ABS, PC/ABS, Acrylic, PS, copolyester, various grades of polyamide, and more.

**General**

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

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.13		ASTM D792
<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress (100% Strain)	203	psi	ASTM D412
Tensile Strength	435	psi	ASTM D412
Tensile Elongation (Break)	340	%	ASTM D412
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Durometer Hardness (Shore A, 10 sec)	40		ASTM D2240

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
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

