

AuroraFlex™ STK85PA-BX

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

STK85PA-BX black thermoplastic elastomer has been developed for applications that require soft rubber-like properties and a good surface finish. STK85PA-BX 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. STK85PA-BX can be overmolded to polyamide/nylon.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	508	psi	ASTM D412
Tensile Strength	827	psi	ASTM D412
Tensile Elongation (Break)	380	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	85		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	482 to 500	°F
Front Temperature	509 to 531	°F
Nozzle Temperature	531 to 545	°F
Mold Temperature	180 to 219	°F
Injection Rate	Fast	
Back Pressure	50.0 to 99.9	psi

