

AuroraFlex™ STK56PA

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

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

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	667	psi	ASTM D412
Tensile Strength	957	psi	ASTM D412
Tensile Elongation (Break)	190	%	ASTM D412
Tear Strength	126	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	60		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

Notes

¹ Typical properties: these are not to be construed as specifications.

