

AuroraFlex™ STK40CLR

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

STK40CLR is a transparent thermoplastic elastomer that has been developed for applications that require ultra soft rubber like properties and a good surface finish. STK40CLR is well suited for consumer goods and industrial applications requiring nonslip soft touch ergonomics, sound and vibration dampening, improved impact resistance, and U.V. stability. STK40CLR can be over molded to PC, ABS, PC/ABS and more. Product is supplied as ready to use pellets

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 Resistant • Vibration Damping
Uses	• Consumer Applications	• Industrial Applications	• Overmolding
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.912		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	275	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	180	psi	ASTM D412
Tensile Strength	750	psi	ASTM D412
Tensile Elongation (Break)	730	%	ASTM D412
Tear Strength	109	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

