

## AuroraFlex™ EXC12003SB

Aurora Material Solutions, LLC - Thermoplastic Elastomer

### General Information

#### Product Description

A Thermoplastic Elastomer designed for wire and cable applications. Flame retardant, jacketing material with excellent low temperature properties.

Note: Additional custom color matching is available upon request.

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Low Temperature Resistant	• UV Resistant
Uses	• Jacketing	• Wire & Cable Applications	
Appearance	• Colors Available		
Processing Method	• Extrusion		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10 to 1.13		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	7.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>	2390	psi	ASTM D412
Tensile Elongation <sup>2</sup> (Break)	500	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	79 to 85		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature <sup>3</sup>	< -76.0	°F	ASTM D746
UL Temperature Rating	221	°F	UL 1581
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (277°F, 168 hr)	-5.0	%	
Change in Ultimate Elongation (277°F, 168 hr)	-10	%	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (0.125 in)	23	%	ASTM D2863

### Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	338	°F
Cylinder Zone 2 Temp.	347	°F
Cylinder Zone 3 Temp.	356	°F
Cylinder Zone 4 Temp.	365	°F
Melt Temperature	356	°F
Die Temperature	365 to 383	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Die C

<sup>3</sup> 75mil

