

AuroraFlex™ EXC 12003-90A SL

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

A 125C TPE Alloy designed for wire and cable jacketing applications. This product is UV resistant, flame retardant, and features outstanding low temperature properties. In addition, this compound contains an additive package designed for improved abrasion and yields better jacket wear resistance over prolonged periods of time.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29 to 1.35		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	8.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ²	3000	psi	ASTM D412
Tensile Elongation ² (Break)	600	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	36 to 42		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ³	-76.0	°F	ASTM D746
UL Temperature Rating	257	°F	UL 1581
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (316°F, 336 hr)	-19	%	
Change in Ultimate Elongation (316°F, 336 hr)	-4.0	%	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index (0.125 in)	28	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	335	°F
Cylinder Zone 2 Temp.	355	°F
Cylinder Zone 3 Temp.	360	°F
Cylinder Zone 4 Temp.	365	°F
Melt Temperature	365	°F
Die Temperature	365 to 375	°F

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

² Die C

³ 75mil
