

AuroraFlex™ EXC 12003-33D-VW1

Aurora Material Solutions, LLC - Thermoplastic Elastomer

General Information
Product Description

A 125°C, Non Halogenated, UV stabilized TPE designed for wire and cable jacketing applications. This RoHS Compliant compound features exceptional mechanical strength, outstanding high and low temperature performance, and a burn rating consistent with UL 94 VO performance.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• UV Stabilizer		
Features	• Halogen Free	• Low Temperature Resistant	• UV Stabilized
Uses	• Wire & Cable Applications		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.02 to 1.08		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)	30 to 36		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)	34	%	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
