

AuroraFlex™ G 18042-70A

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

A Nitrile/TPE material with excellent resilient, rubber-like properties designed for general purpose extrusion and molding applications.

Note: Additional custom color matching is available upon request.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• Resilient	
Uses	• Gaskets	• General Purpose	
Appearance	• Colors Available	• Matte Finish	
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29 to 1.35		ASTM D792
Melt Mass-Flow Rate (MFR) (175°C/10.0 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (2000 Cycles, H-18 Wheel)	71.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	2000	psi	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Compression Set (75°F, 22 hr)	18	%	ASTM D395
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	67 to 73		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-40.0	°F	ASTM D746

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	190	°F
Drying Time	4.0	hr
Cylinder Zone 1 Temp.	320	°F
Cylinder Zone 2 Temp.	325	°F
Cylinder Zone 3 Temp.	330	°F
Cylinder Zone 4 Temp.	335	°F
Melt Temperature	330	°F
Die Temperature	340 to 345	°F

