

AuroraFlex™ 19020

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

A PVC/TPE based compound with good rubber like resilient properties designed for general purpose extrusion application.

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
Features	• General Purpose • Soft
Uses	• General Purpose
Appearance	• Colors Available
Processing Method	• Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.00 to 1.60		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	696	psi	ASTM D638
Tensile Strength	1490	psi	ASTM D412
Tensile Elongation (Break)	300	%	ASTM D412
Compression Set (212°F, 22 hr)	52	%	ASTM D395
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	72 to 78		ASTM D2240
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (212°F, 70 hr)	-10	%	ASTM D573
Change in Ultimate Elongation in Air (212°F, 70 hr)	-30	%	ASTM D573
Change in Tensile Strength			ASTM D471
212°F, 70 hr, in IRM 903 Oil	25	%	
100% Strain, 212°F, 70 hr, in IRM 903 Oil	-15	%	
Change in Ultimate Elongation (212°F, 70 hr, in IRM 903 Oil)	-10	%	ASTM D471

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	280 to 320	°F
Front Temperature	331 to 360	°F
Nozzle Temperature	360 to 399	°F
Mold Temperature	60 to 120	°F
Injection Rate	Fast	
Back Pressure	50.0 to 99.9	psi

