

AuroraFlex™ 2850

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

A Thermoplastic Elastomer designed for boot soling. It has a proven track record for great outdoor weatherability. It is now finding use in other areas where resistance to various chemicals and other industrial applications will require the excellent resistance to ozone, ultraviolet light, abrasion, slip resistance and low temperatures which this material exhibits.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Abrasion Resistant	• Low Temperature Resistant	• UV Resistant
	• Good Weather Resistance	• Ozone Resistant	
Uses	• Footwear		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	30	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance ² (1000 Cycles, 1000 g, H-18 Wheel)	115	mg	ASTM D1044
Ross Flex - @ 100k flexes	0.0	%	ASTM D1052
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	160	psi	ASTM D412
Tensile Strength	1480	psi	ASTM D412
Tensile Elongation (Break)	860	%	ASTM D412
Tear Strength	147	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	331 to 351	°F
Front Temperature	360 to 370	°F
Nozzle Temperature	379 to 399	°F
Mold Temperature	70 to 100	°F
Injection Rate		Fast
Back Pressure	99.9 to 200	psi
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

Notes

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

² weight loss method

