AuroraFlex™ 2850STE

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

A highly resilient Thermoplastic Elastomer designed for applications that require excellent tensile strength and recovery. This material possesses excellent processability and can be both molded and extruded.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability	• High Tensile Strength	• Resilient
Uses	• Aerospace Applications • Agricultural Applications • Appliances • Automotive Applications • Capstock	• Consumer Applications • Electrical/Electronic Applications • Energy Storage • Film • Footwear	• Furniture • Medical/Healthcare Applications • Personal Care • Sheet
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.862 to 0.922		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/4.9 kg)	17	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	189	psi	ASTM D412
Tensile Strength	1640	psi	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	47 to 53		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	