

## AuroraFlex™ EL 2855

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

### General Information

#### Product Description

EL 2855 is a thermoplastic elastomer that has been developed for applications that require rubber-like properties and a good surface finish. EL 2855 is FDA compliant and well suited for consumer products and medical applications. It can be over molded onto polypropylene.

#### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Good Surface Finish
Uses	• Consumer Applications • Medical/Healthcare Applications • Overmolding
Agency Ratings	• FDA
Processing Method	• Injection Molding

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	435	psi	ASTM D412
Tensile Strength	580	psi	ASTM D412
Tensile Elongation (Break)	390	%	ASTM D412
Tear Strength	125	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	58		ASTM D2240

### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	300 to 331	°F
Front Temperature	331 to 360	°F
Nozzle Temperature	370 to 421	°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	

