

AuroraFlex™ EL 2810

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

2810 thermoplastic elastomer has been developed for applications that require ultra soft rubber-like properties and a good surface finish. 2810 is FDA compliant and well suited for consumer goods and industrial applications requiring non-slip/soft touch ergonomics and resilience. 2810 can be overmolded onto polypropylene.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	72.5	psi	ASTM D412
Tensile Strength	232	psi	ASTM D412
Tensile Elongation (Break)	620	%	ASTM D412
Tear Strength	33.0	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	10		ASTM D2240

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

