

AuroraFlex™ EL 2850PE

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

EL 2850PE thermoplastic elastomer has been developed for applications that require rubber-like properties and a good surface finish. EL 2850PE is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. EL 2850PE can be over molded and coextruded with polyethylene.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	319	psi	ASTM D412
Tensile Strength	479	psi	ASTM D412
Tensile Elongation (Break)	230	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	52		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	

