

AuroraFlex™ EL 2840PE

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

2840PE thermoplastic elastomer has been developed for applications that require rubber-like properties and a good surface finish. 2840PE is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. 2840PE can be overmolded 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	0.892		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	160	psi	ASTM D412
Tensile Strength	392	psi	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	37		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
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

