

AuroraFlex™ 2860L

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

2860L is a translucent lubricated thermoplastic elastomer that has been developed for applications that require rubber-like properties, a good surface finish, and a reduced coefficient of friction. 2860L is FDA compliant and well suited for consumer products and medical applications. 2860L can be overmolded onto polypropylene.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.882		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	334	psi	ASTM D412
Tensile Strength	711	psi	ASTM D412
Tensile Elongation (Break)	610	%	ASTM D412
Tear Strength	124	lbf/in	ASTM D624
Compression Set (158°F, 22 hr)	17	%	ASTM D395B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	60		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	

Notes

¹ Typical properties: these are not to be construed as specifications.

