

AuroraFlex™ EL 8078N

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

EL 8078N is a colorable thermoplastic elastomer formulated for applications that require rubber-like properties and a good surface finish. EL 8078N is FDA compliant and well suited for consumer goods and industrial applications requiring UV stability. EL 8078N can be overmolded to polypropylene.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.02		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	653	psi	ASTM D412
Tensile Strength (Break)	1100	psi	ASTM D412
Tensile Elongation (Break)	560	%	ASTM D412
Tear Strength	196	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	80		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	331 to 351	°F
Front Temperature	351 to 360	°F
Nozzle Temperature	360 to 379	°F
Mold Temperature	70 to 100	°F
Injection Rate	Fast	
Back Pressure	50.0 to 99.9	psi
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

