

## AuroraFlex™ EL 8145BNA

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

### General Information

#### Product Description

EL 8145BNA is a black thermoplastic elastomer formulated for applications that require rubber like properties and a good surface finish. EL 8145BNA is well suited for consumer goods and industrial applications requiring UV stability. EL 8145BNA can be over molded to polypropylene.

#### General

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

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.13		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	190	psi	ASTM D412
Tensile Strength	620	psi	ASTM D412
Tensile Elongation (Break)	820	%	ASTM D412
Tear Strength	1100	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	45		ASTM D2240

### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	345 to 376	°F
Front Temperature	354 to 385	°F
Nozzle Temperature	365 to 399	°F
Mold Temperature	70 to 100	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 99.9	psi
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

