

AuroraFlex™ 8138BL

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

8138BL is a black thermoplastic elastomer compound formulated for applications that require rubber-like properties, a good surface finish, and a reduced coefficient of friction. 8138BL is well suited for consumer goods and industrial applications requiring U.V. stability. 8138BL 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 Surface Finish	• UV Stabilized	
Uses	• Consumer Applications	• Industrial Applications	• Overmolding
Appearance	• Black		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.08 to 1.14		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	155	psi	ASTM D412
Tensile Strength	537	psi	ASTM D412
Tensile Elongation (Break)	480	%	ASTM D412
Tear Strength	75.0	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	37 to 43		ASTM D2240

Processing Information

	Nominal Value	Unit
Injection		
Rear Temperature	289 to 320	°F
Front Temperature	320 to 360	°F
Nozzle Temperature	370 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	
Extrusion		
Cylinder Zone 1 Temp.	< 175	°F
Cylinder Zone 2 Temp.	375	°F
Cylinder Zone 3 Temp.	375	°F
Cylinder Zone 4 Temp.	375	°F
Cylinder Zone 5 Temp.	375	°F
Die Temperature	450	°F

