

AuroraFlex™ 2840FX

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

2840FX is a functionalized translucent thermoplastic elastomer compound formulated for applications that require rubber-like properties and high resilience. 2840FX is well suited for consumer goods and industrial applications requiring U.V. stability. 2840FX has been developed for applications requiring print ability and overmolding onto various metals and other non-plastic substrates.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.922		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	174	psi	ASTM D412
Tensile Strength	653	psi	ASTM D412
Tensile Elongation (Break)	320	%	ASTM D412
Tear Strength	88.0	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	40		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	351	°F
Middle Temperature	370 to 390	°F
Front Temperature	379 to 399	°F
Nozzle Temperature	390 to 399	°F
Processing (Melt) Temp	390 to 399	°F
Mold Temperature	100 to 120	°F
Injection Rate	Slow-Moderate	
Back Pressure	49.3 to 149	psi
Screw Speed	75 to 125	rpm
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	309 to 320	°F
Cylinder Zone 2 Temp.	320 to 340	°F
Cylinder Zone 3 Temp.	340 to 351	°F
Cylinder Zone 4 Temp.	360 to 370	°F
Cylinder Zone 5 Temp.	351 to 360	°F
Die Temperature	320 to 340	°F

