

AuroraFlex™ 2845X

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

2845X is a functionalized translucent thermoplastic elastomer compound formulated for applications that require rubber-like properties and high resilience. 2845X is well suited for consumer goods and industrial applications requiring U.V. stability. 2845X 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 • Europe • North America • Asia Pacific • Latin 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)	232	psi	ASTM D412
Tensile Strength	1570	psi	ASTM D412
Tensile Elongation (Break)	540	%	ASTM D412
Tear Strength	147	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	45		ASTM D2240

Processing Information

	Nominal Value	Unit
Injection		
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

