

AuroraFlex™ CLR15

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

CLR15 is a transparent thermoplastic elastomer that has been developed for applications that require resilience, high strength properties and a good surface finish. CLR15 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• UV Stabilizer		
Features	• Good Surface Finish	• High Strength	• UV Stabilized
Uses	• Consumer Applications	• Industrial Applications	
Agency Ratings	• FDA Food Contact		
Appearance	• Clear/Transparent		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	31.9	psi	ASTM D412
Tensile Strength	882	psi	ASTM D412
Tensile Elongation (Break)	860	%	ASTM D412
Tear Strength	114	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	15		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	60 to 120	°F
Injection Rate	Slow	
Back Pressure	24.7 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

