

AuroraFlex™ CLR50

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

CLR50 is a transparent thermoplastic elastomer that has been developed for applications that require resilience, high strength properties and a good surface finish. CLR50 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. CLR50 can be overmolded onto polypropylene.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• UV Stabilizer		
Features	• Good Surface Finish	• Resilient	
	• High Strength	• UV Stabilized	
Uses	• Consumer Applications	• Industrial Applications	• Overmolding
Agency Ratings	• FDA		
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)	189	psi	ASTM D412
Tensile Strength	754	psi	ASTM D412
Tensile Elongation (Break)	610	%	ASTM D412
Tear Strength	142	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	50		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	331 to 351	°F
Front Temperature	360 to 370	°F
Nozzle Temperature	379 to 399	°F
Mold Temperature	70 to 100	°F
Injection Rate		Fast
Back Pressure	99.9 to 200	psi
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

