

## AuroraFlex™ CLR75

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

### General Information

#### Product Description

CLR75 is a transparent thermoplastic elastomer that has been developed for applications that require oil/plasticizer free, non-blooming high strength properties and a tactile surface finish. CLR75 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. CLR75 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 • Non-Blooming • High Strength • UV Stabilized
Uses	• Consumer Applications • Industrial Applications • Overmolding
Agency Ratings	• FDA
Appearance	• Clear/Transparent
Processing Method	• Extrusion • Injection Molding

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	392	psi	ASTM D412
Tensile Strength	2190	psi	ASTM D412
Tensile Elongation (Break)	730	%	ASTM D412
Tear Strength	200	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	75		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	

