

AuroraFlex™ CLR35

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

CLR35 is a transparent thermoplastic elastomer that has been developed for applications that require resilience, high strength properties and a good surface finish. CLR35 is FDA compliant and well suited for consumer goods and industrial applications requiring UV stability.

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	
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)	116	psi	ASTM D412
Tensile Strength	1480	psi	ASTM D412
Tensile Elongation (Break)	790	%	ASTM D412
Tear Strength	148	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	38		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	351 to 360	°F
Middle Temperature	379 to 390	°F
Front Temperature	399 to 421	°F
Nozzle Temperature	399 to 421	°F
Processing (Melt) Temp	399 to 421	°F
Mold Temperature	60 to 120	°F
Injection Rate		Slow
Back Pressure	49.3 to 149	psi
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

