

AuroraFlex™ CLR30

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

CLR30 is a transparent thermoplastic elastomer that has been developed for applications that require resilience, high strength properties and a good surface finish. CLR30 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 | | |
| 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 | 856 | psi | ASTM D412 |
| Tensile Elongation (Break) | 1000 | % | ASTM D412 |
| Tear Strength | 125 | lbf/in | ASTM D624 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 10 sec) | 24 | | ASTM D2240 |

Processing Information

| Injection | Nominal Value | Unit |
|-------------------------|--------------------|------|
| Rear Temperature | 340 to 351 | °F |
| Middle Temperature | 351 to 379 | °F |
| Front Temperature | 360 to 410 | °F |
| Nozzle Temperature | 370 to 511 | °F |
| Processing (Melt) Temp | 370 to 410 | °F |
| Mold Temperature | 60 to 120 | °F |
| Injection Rate | Slow | |
| Back Pressure | 24.7 to 149 | psi |
| Screw Compression Ratio | 2.5:1.0 to 3.0:1.0 | |

