



# CLR30

Elastocon® CLR30 is a transparent thermoplastic elastomer that has been developed for applications that require resilience, high strength properties and a good surface finish. Elastocon® CLR30 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability.

Elastocon® CLR30 is supplied as ready to use pellets in 40 lb. quantities.

| Typical Physical Properties |                             |           |               |
|-----------------------------|-----------------------------|-----------|---------------|
| Property                    | Referenced ASTM Test Method | Test Unit | Typical Value |
| Hardness                    | ASTM D2240                  | Shore A   | 25            |
| Specific Gravity            | ASTM D792                   | g/cc      | .89           |
| Tensile Properties          | ASTM D412                   |           |               |
| Tensile Strength            | ASTM D412                   | Mpa (psi) | 7.8 (1135)    |
| 100% Modulus                | ASTM D412                   | Mpa (psi) | .34 (50)      |
| Elongation                  | ASTM D412                   | %         | 878           |
| Tear Strength               | ASTM D624                   | pli       | 125           |

---

For additional technical, sales, and order assistance:

Elastocon TPE Technologies  
PO Box 463  
Rochester, IL 62563 USA

Sales and Technical Assistance:

Office +1 217 498 8500  
Fax +1 888 231 8332  
orders@etpe.com  
sales@etpe.com  
techsupport@etpe.com  
www.etpe.com

---

## **Processing**

Elastocon® thermoplastic elastomers are shear dependent and have been formulated to process on conventional thermoplastic equipment for injection molding, extrusion or blow molding.

For extrusion, a general purpose screw with a compression ratio of 2.5 to 3.0 is suggested. The feed zone temperature should be no higher than 175F. We generally suggest increasing the zone temperatures along the extruder barrel from about 300F/149C at the zone next to the feed zone, to about 350F/177C at the die body. Typical injection molding conditions for a reciprocating screw machine are listed in the chart below. These values are intended only as guidelines, and optimum conditions will vary from machine, material being modified, and mold configuration.

| <b>Suggested Processing Conditions</b> |                |              |
|--|----------------|--------------|
| <b>Barrel Temperatures</b>             | <b>English</b> | <b>SI</b>    |
| Rear                                   | 340-350F       | 171-177C     |
| Center                                 | 350-380F       | 177-193C     |
| Front                                  | 360-410F       | 182-210C     |
| Nozzle                                 | 370-510F       | 188-266C     |
| Melt                                   | 370-410F       | 188-210C     |
| <b>Mold Temperature</b>                | 60F-120F       | 15.6-49C     |
| <b>Back Pressure</b>                   | 25-150 psi     | .17-1.03 MPa |
| <b>Injection Rate</b>                  | Slow           | Slow         |

**Elastocon® CLR30 thermoplastic elastomer compound does not require drying.**

Elastocon® thermoplastic elastomers are not compatible with flexible PVC and should not be blended with or used in an application where direct contact is intended.

---

For additional technical, sales, and order assistance:

Elastocon TPE Technologies  
PO Box 463  
Rochester, IL 62563 USA

Sales and Technical Assistance:

Office +1 217 498 8500  
Fax +1 888 231 8332  
orders@etpe.com  
sales@etpe.com  
techsupport@etpe.com  
www.etpe.com

---

**DISCLAIMER OF WARRANTY AND LIABILITY:** Although the information and recommendations set forth herein ("Information") are believed to be correct. Elastocon, Inc., makes no representations or warranties, express or implied, as to the accuracy or completeness thereof, or of merchantability, fitness for a particular purpose, or of any other nature regarding information, or any product, process or equipment of Elastocon, Inc., or of any other manufacturer or supplier mentioned herein. Nothing contained herein is to be construed as a recommendation to use any product, process, equipment or formulation in conflict with any patent. Elastocon, Inc. makes no representation or warranty, express or implied, that the use thereof will not infringe any patent. Persons receiving information must make their own determination as to its suitability to their purposes prior to use. In no event will Elastocon, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the products, processes or equipment to which the Information refers.

Rev: 2015