



CLR75

Elastocon® 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. Elastocon® CLR75 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® CLR75 can be overmolded onto polypropylene.

Elastocon® CLR75 is supplied as ready to use pellets in 1000 lb. quantities.

| Typical Physical Properties | | | |
|-----------------------------|-----------------------------|-----------|---------------|
| Property | Referenced ASTM Test Method | Test Unit | Typical Value |
| Hardness | ASTM D2240 | Shore A | 75 |
| Specific Gravity | ASTM D792 | g/cc | .89 |
| Tensile Properties | ASTM D412 | | |
| Tensile Strength | ASTM D412 | Mpa (psi) | 15.1 (2192) |
| 100% Modulus | ASTM D412 | Mpa (psi) | 2.71 (393) |
| Elongation | ASTM D412 | % | 731 |
| Tear Strength | ASTM D624 | pli | 200 |

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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.

| Suggested Processing Conditions | |
|--|-------------|
| Barrel Temperatures | |
| Rear | 330-350F |
| Front | 360-370F |
| Nozzle | 380-400F |
| | |
| Mold Temperature | 70F-100F |
| | |
| Back Pressure | 100-200 psi |
| | |
| Injection Rate | Fast |

Elastocon® CLR75 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.

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