

Elastocon TPE Technologies Elastocon® CLR75 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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. Information provided by Elastocon TPE Technologies, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elastocon-TPE-Technologies-Elastocon-CLR75-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.890 g/cc	0.890 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.015 - 0.025 cm/cm	0.015 - 0.025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Tensile Strength	10.0 MPa	1450 psi	ASTM D412
Elongation at Break	499 %	499 %	ASTM D412
100% Modulus	0.00420 GPa	0.609 ksi	ASTM D412

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	166 - 177 °C	330 - 350 °F	
Front Barrel Temperature	182 - 188 °C	360 - 370 °F	
Nozzle Temperature	193 - 204 °C	380 - 400 °F	
Mold Temperature	21.1 - 37.8 °C	70.0 - 100 °F	
Back Pressure	0.689 - 1.38 MPa	100 - 200 psi	

Descriptive Properties	Value	Comments
Injection Rate	Fast	

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