

Elastocon TPE Technologies Elastocon® 2850PE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Elastocon® 2850PE thermoplastic elastomer has been developed for applications that require rubber-like properties and a good surface finish. Elastocon® 2850PE is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® 2850PE can be overmolded and coextruded with polyethylene. Information provided by Elastocon TPE Technologies, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elastocon-TPE-Technologies-Elastocon-2850PE-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	52	52	ASTM D2240
Tensile Strength	6.41 MPa	930 psi	ASTM D412
Elongation at Break	626 %	626 %	ASTM D412
100% Modulus	0.00173 GPa	0.251 ksi	ASTM D412
Compression Set	16 % @Temperature 20.0 °C, Time 79200 sec	16 % @Temperature 68.0 °F, Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Feed Temperature	<= 79.4 °C	<= 175 °F	
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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