

Elastocon® 2810

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

Elastocon® 2810 thermoplastic elastomer has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® 2810 is FDA compliant and well suited for consumer goods and industrial applications requiring non-slip/soft touch ergonomics and resilience. Elastocon® 2810 can be overmolded onto polypropylene.

General Information	
Features	Soft
	Excellent appearance
	Elastic
Uses	overmolding
	Industrial application
	Consumer goods application field
Agency Ratings	FDA not rated
Forms	Particle
Processing Method	Blow molding
	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.860	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	10		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.496	MPa	ASTM D412
Tensile Strength (Yield)	1.57	MPa	ASTM D412
Tensile Elongation (Break)	580	%	ASTM D412
Compression Set (23°C, 22 hr)	9.0	%	ASTM D395B
Injection	Nominal Value	Unit	
Rear Temperature	138 - 160	°C	
Front Temperature	166 - 182	°C	
Nozzle Temperature	182 - 204	°C	
Mold Temperature	15.6 - 48.9	°C	
Injection Rate	Fast		
Back Pressure	0.345 - 0.689	MPa	
Extrusion	Nominal Value	Unit	

Hopper Temperature	< 79.4	°C
Cylinder Zone 1 Temp.	149 - 177	°C
Cylinder Zone 2 Temp.	149 - 177	°C
Cylinder Zone 3 Temp.	149 - 177	°C
Cylinder Zone 4 Temp.	149 - 177	°C
Cylinder Zone 5 Temp.	149 - 177	°C
Die Temperature	149 - 177	°C

Extrusion instructions

Compression ratio: 2.5 to 3.0

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