

Elastocon® 2880L

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

Elastocon® 2880L thermoplastic elastomer has been developed for applications that require rubber-like properties and a reduced coefficient of friction. Elastocon® 2880L is FDA compliant and well suited for consumer goods and industrial applications. Elastocon® 2880L can be overmolded onto polypropylene.

General Information	
Features	Low friction coefficient Soft
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	0.880	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.9	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	4.45	MPa	ASTM D412
Tensile Strength (Yield)	8.25	MPa	ASTM D412
Tensile Elongation (Break)	530	%	ASTM D412
Compression Set (70°C, 22 hr)	18	%	ASTM D395B
Injection	Nominal Value	Unit	
Rear Temperature	166 - 177	°C	
Front Temperature	182 - 188	°C	
Nozzle Temperature	193 - 204	°C	
Mold Temperature	21.1 - 37.8	°C	
Injection Rate	Fast		
Back Pressure	0.689 - 1.38	MPa	
Extrusion	Nominal Value	Unit	
Hopper Temperature	< 79.4	°C	

Cylinder Zone 1 Temp.	191 - 232	°C
Cylinder Zone 2 Temp.	191 - 232	°C
Cylinder Zone 3 Temp.	191 - 232	°C
Cylinder Zone 4 Temp.	191 - 232	°C
Cylinder Zone 5 Temp.	191 - 232	°C
Die Temperature	191 - 232	°C

Extrusion instructions

Compression ratio: 2.5 to 3.0

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