

Elastocon® 2825

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

Elastocon® 2825 thermoplastic elastomer compound has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® 2825 is FDA compliant and well suited for consumer goods and industrial applications requiring non-slip/soft touch ergonomics and resilience. Elastocon® 2825 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	0.880	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	25		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.724	MPa	ASTM D412
Tensile Strength (Yield)	4.94	MPa	ASTM D412
Tensile Elongation (Break)	530	%	ASTM D412
Compression Set (23°C, 22 hr)	13	%	ASTM D395B
Injection	Nominal Value	Unit	
Rear Temperature	138 - 160	°C	
Front Temperature	166 - 182	°C	
Nozzle Temperature	188 - 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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