

Elastocon® 2855

Thermoplastic Elastomer

Elastocon TPE Technologies

Message:

Elastocon® 2855 thermoplastic elastomer has been developed for applications that require rubber-like properties and a good surface finish. Elastocon® 2855 is FDA compliant and well suited for consumer products and medical applications. Elastocon® 2855 can be overmolded onto polypropylene. Elastocon® 2855 is supplied as ready to use pellets in 50 lb. bag quantities.

General Information	
Features	Excellent appearance
Uses	Consumer goods application field
	Medical/nursing supplies
Agency Ratings	FDA not rated
Forms	Particle
Processing Method	Blow molding
	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm ³	ASTM D792

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	55		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.00	MPa	ASTM D412
Tensile Strength	4.70	MPa	ASTM D412
Tensile Elongation (Break)	410	%	ASTM D412
Tear Strength	21.4	kN/m	ASTM D624
Compression Set (70°C, 22 hr)	25	%	ASTM D395B

Injection	Nominal Value	Unit
Rear Temperature	149 - 166	°C
Front Temperature	166 - 182	°C
Nozzle Temperature	188 - 216	°C
Mold Temperature	21 - 38	°C
Injection Rate	Fast	
Back Pressure	0.689 - 1.38	MPa
Screw Compression Ratio	2.5:1.0 - 3.0:1.0	

Injection instructions

Elastocon® 2855 thermoplastic elastomer compound does not require drying.

Extrusion	Nominal Value	Unit
Hopper Temperature	79	°C

Cylinder Zone 1 Temp.	149	°C
Cylinder Zone 5 Temp.	177	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

