

Elastocon® SMR1000

Thermoplastic Polyolefin Elastomer

Elastocon TPE Technologies

Message:

Elastocon® SMR1000 thermoplastic polyolefin elastomer has been developed for applications that require impact resistance and a high gloss scratch and mar resistant surface finish. Elastocon® SMR1000 is FDA compliant and well suited for consumer goods and industrial applications requiring U.V. stability. Elastocon® SMR1000 eliminates stress whitening.

General Information			
Features	Highlight		
	Stress whitening		
	Impact resistance, good		
	Good UV resistance		
	Scratch resistance		
Uses	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	0.900	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	17.4	MPa	ASTM D412
Tensile Strength (Yield)	22.8	MPa	ASTM D412
Tensile Elongation (Break)	240	%	ASTM D412
Injection	Nominal Value	Unit	
Rear Temperature	200 - 225	°C	
Front Temperature	200 - 230	°C	
Nozzle Temperature	200 - 235	°C	
Mold Temperature	21.0 - 49.0	°C	
Injection Rate	Fast		
Back Pressure	0.689 - 1.38	MPa	
Extrusion	Nominal Value	Unit	
Hopper Temperature	< 79.0	°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	232	°C

Extrusion instructions

Compression ratio: 2.5 to 3.0

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