

## Elastocon TPE Technologies Elastocon® SMR1450 Thermoplastic Polyolefin Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO)

### Material Notes:

Elastocon® SMR1450 thermoplastic polyolefin elastomer has been developed for applications that require low temperature impact resistance and a high gloss scratch and mar resistant surface finish. Elastocon® SMR1450 is well suited for consumer goods and industrial applications requiring U.V. stability and excellent low temperature stability. Elastocon® SMR1450 provides a non-bloom surface. Information provided by Elastocon® TPE Technologies

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Elastocon-TPE-Technologies-Elastocon-SMR1450-Thermoplastic-Polyolefin-Elastomer.php](http://www.lookpolymers.com/polymer_Elastocon-TPE-Technologies-Elastocon-SMR1450-Thermoplastic-Polyolefin-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.890 g/cc	0.890 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.015 - 0.025 cm/cm	0.015 - 0.025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ASTM D2240
Tensile Strength, Yield	14.8 MPa	2150 psi	ASTM D412
Elongation at Break	566 %	566 %	ASTM D412
100% Modulus	0.0110 GPa	1.60 ksi	ASTM D412
Dynatup @ -30°C	34.0 J	25.1 ft-lb	ASTM D3763

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 - 225 °C	392 - 437 °F	
Front Barrel Temperature	200 - 230 °C	392 - 446 °F	
Nozzle Temperature	200 - 235 °C	392 - 455 °F	
Mold Temperature	21.0 - 49.0 °C	69.8 - 120 °F	
Back Pressure	0.689 - 1.38 MPa	99.9 - 200 psi	

Descriptive Properties	Value	Comments
Injection Velocity (mm/sec)	Fast	

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