

Elastocon TPE Technologies Elastocon® SMR1000 Thermoplastic Polyolefin Elastomer

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

Material Notes:

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. Information provided by Elastocon® TPE Technologies

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elastocon-TPE-Technologies-Elastocon-SMR1000-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 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	65	65	ASTM D2240
Tensile Strength, Yield	22.8 MPa	3310 psi	ASTM D412
Elongation at Break	243 %	243 %	ASTM D412
100% Modulus	0.0147 GPa	2.13 ksi	ASTM D412

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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