

Elastocon TPE Technologies Elastocon® STK40B Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Elastocon® STK40B is a black thermoplastic elastomer that has been developed for applications that require ultra soft rubber-like properties and a good surface finish. Elastocon® STK40B is well suited for consumer goods and industrial applications requiring non-slip/soft dry-touch ergonomics, sound and vibration dampening, improved impact resistance, and U.V. stability. Elastocon® STK40B can be overmolded to PC, ABS, PC/ABS, Acrylic, HIPS, copolyester, various grades of polyamide, and more. Information provided by Elastocon TPE Technologies, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elastocon-TPE-Technologies-Elastocon-STK40B-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 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 A	40	40	ASTM D2240
Tensile Strength	2.96 MPa	429 psi	ASTM D412
Elongation at Break	338 %	338 %	ASTM D412
100% Modulus	0.00138 GPa	0.200 ksi	ASTM D412

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 216 °C	410 - 420 °F	
Front Barrel Temperature	216 - 266 °C	420 - 510 °F	
Nozzle Temperature	227 - 277 °C	440 - 530 °F	
Mold Temperature	26.7 - 48.9 °C	80.0 - 120 °F	
Injection Velocity	25.4 - 127 mm/sec	1.00 - 5.00 in/sec	
Back Pressure	0.517 - 1.21 MPa	75.0 - 175 psi	

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