

Figure 4™ ELAST-BLK 10

Design Elastomer

A rubber-like material for accelerated designing and prototyping of elastomeric products

Figure 4

DESIGN AND TEST ELASTOMERIC PARTS

Figure 4 ELAST-BLK 10 is a material suited for the prototyping and design of a wide variety of elastomeric parts. Producing parts in a fraction of the time required to produce molded parts, this material accelerates the design and iteration of new concepts with rubber-like functional prototypes for industrial and consumer goods applications.

Liquid Material

MEASUREMENT	CONDITION	VALUE	
Viscosity	@ 25 °C (71 °F)	1200 cps	
Color		Black	
Solid Density	@ 25 °C (77 °F)	1.13 g/cm ³	0.041 lb/in ³
Liquid Density	@ 25 °C (77 °F)	1.06 g/cm ³	0.038 lb/in ³
Package Volume		1 kg bottle - Figure 4 Standalone 10 kg container - Figure 4 Production	
Layer Thickness (Standard Mode)		0.10 mm	0.004 in
Vertical Build Speed (Standard Mode)		47 mm/hr	1.9 in/hr

APPLICATIONS

- Design verification and validation and testing of:
 - Hoses
 - Tubes
 - Weatherstripping
 - Seals
 - Grommets
 - Gaskets
 - Spacers and other vibration dampening components

BENEFITS

- Verify, modify and optimize designs of elastomeric parts prior to production
- Excellent shape recovery
- Realistic rubber look and feel

FEATURES

- Medium softness/stiffness
- High elongation at break
- Excellent compressive characteristics



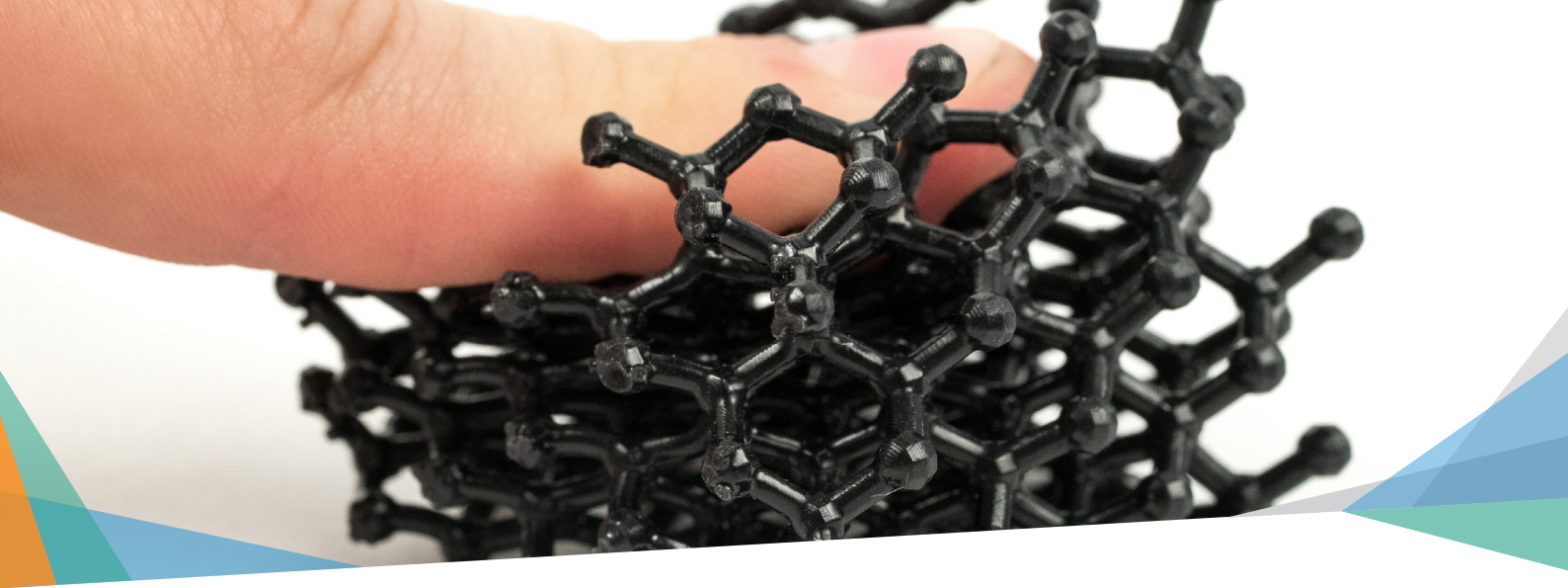


Figure 4™ ELAST-BLK 10

Design Elastomer

A rubber-like material for accelerated designing and prototyping of elastomeric products

Figure 4

Post-Cured Material

MECHANICAL PROPERTIES			
MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa PSI)	ASTM D412	3.6	522
Tensile Modulus (MPa KSI)	ASTM D412	3.6	0.522
Elongation at Break	ASTM D412	83 %	
Tear Strength (kN/m Lbf/in)	ASTM D624	11	64
Compression Set	ASTM D395	0.87 %	
Glass Transition (Tg)	DMA, E"	-26 °C	-16 °F
Hardness, Shore	ASTM D2240	65A	
Water Absorption	ASTM D570	1.4 %	



Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

© 2018 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. 3D Systems and the 3D Systems logo are registered trademarks and Figure 4 is a trademark of 3D Systems, Inc.



middle east
3D PRINTING THE FUTURE

U.A.E Office : 3204, Prism Tower, Business Bay, P.O. Box 28820, Dubai, U.A.E.
K.S.A Office : Al Saif Tower, 6th Floor, King Abdullah Street, Near Intersection with Olaya Street, Riyadh, K.S.A.
Tel : +971.4.443.3853 ; Fax : +971.4.443.3938 ; Email : info@3d-me.com ; Website: www.3d-me.com



3D SYSTEMS

DISTRIBUTOR | Middle East & North Africa