



Figure 4™ RUBBER-BLK 10

Durable Elastomer

High tear strength, malleable material for hard rubber-like parts

Figure 4®

HIGH TEAR STRENGTH WITH LONG TERM ENVIRONMENTAL STABILITY FOR HARD RUBBER-LIKE PARTS

Figure 4 RUBBER-BLK 10 is a high tear strength material for the production of hard rubber-like parts with slow-rebound for touch applications such as grips, handles and bumpers, as well as strain-relief applications, couplings, over molds, etc. This extremely tough material has an exceptional surface finish and long-term environmental stability.

APPLICATIONS

- Slow-rebound hard-rubber material allows for multiple touch applications, including grips, handles, bumpers
- Good for strain-relief type applications
- Couplings and overmoldings
- Production parts needing long term environmental stability where mechanical properties fit

Liquid Material

MEASUREMENT	CONDITION	METRIC	U.S.
Viscosity	@ 25 °C (77 °F)	1413 cps	3420 lb/ft-hr
Color		Black	
Liquid Density	@ 25 °C (77 °F)	1.11 g/cm ³	0.040 lb/in ³
Package Volume		1 kg bottle - Figure 4 Standalone 2.5 kg cartridge - Figure 4 Modular 10 kg container - Figure 4 Production	
Layer Thickness (Standard Mode)		0.03 mm	0.0012 in
Vertical Build Speed (Standard Mode / Draft Mode)		26 mm/hr / 35 mm/hr	1.0 in/hr / 1.4 in/hr

BENEFITS

- Exceptional surface finish
- Very tough material
- Great for soft touch applications
- Engineered for long term environmental stability

FEATURES

- High tear strength
- Shore hardness of 59D and 97A
- Tough and durable



Post-Cured Material

MECHANICAL PROPERTIES			
MEASUREMENT	CONDITION	METRIC	U.S.
Solid Density (g/cm ³ lb/in ³)	ASTM D792	1.17	0.042
Tensile Strength, Ultimate (MPa PSI)	ASTM D412	19	2750
Tensile Modulus (MPa KSI)	ASTM D412	434	63
Elongation at Break	ASTM D412	75%	
Notched Izod Impact Strength (J/m Ft-lbs/in)	ASTM D256	128	2.4
Unnotched Izod Impact Strength (J/m Ft-lbs/in)	ASTM D4812	Did not break	
Glass Transition (T _g), DMA, E''	ASTM E1640	21 °C	70 °F
Hardness, Shore	ASTM D2240	59D, 97A	
Water Absorption (24 hour)	ASTM D570	0.40%	
Tear Strength (kN/m lbf/in)	ASTM D624	76	430



www.3dsystems.com

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.

© 2019 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. 3D Systems, the 3D Systems logo and Figure 4 are registered trademarks of 3D Systems, Inc.

* Note: Not all products and materials are available in all countries – please consult your local sales representative for availability.