

## Figure 4<sup>™</sup> RUBBER-BLK 10

### **Durable Elastomer**

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

#### Figure 4<sup>®</sup>

## 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.

#### 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 <sup>3</sup>	0.040 lb/in <sup>3</sup>	
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	

#### 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
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#### 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 <sup>3</sup>   lb/in <sup>3</sup> )	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 (Tg), 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		



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