



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.

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)		0.04 mm	0.0015 in
Vertical Build Speed (Standard Mode)		36 mm/hr	1.4 in/hr
Vertical Build Speed (Draft Mode)		46 mm/hr	1.8 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 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 (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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