



Silicone & Epoxy Technology

53 C Otis Street  
West Babylon, NY 11704  
Tel. 631-920-5079 Fax. 631-920-0503  
E-mail: SalesSET@optonline.net  
www.SET-mfg.com

## Set-SIE 70D Polyurethane Elastomer

**Set-SIE 70D** is a tough, abrasion resistant polyurethane elastomer formulated for room temperature hand batch processing. Excellent physical properties are obtained with only a room temperature cure without the utilization of MOCA or TDI. It is excellent for making Fixtures, Prototypes, Models, Metal Forming Faces, Stereo Lithography Replication, Rollers, Wheels, Pallets & Encapsulations.

### TYPICAL PROPERTIES:

Resin/Hardener ratio (Parts by Weight)	100/50
Resin/Hardener ratio (Parts by Volume)	100/53
Resin viscosity (@ 77° F.)	45cps
Hardener viscosity (@ 77° F.)	800 cps
Initial mixed viscosity	200 cps
Working life (@ 77° F.)	17 $\pm$ 3 Min.
Color	White
Demold time	5 $\pm$ 1 Hrs.
Ultimate cure @ 77° F.	7 days
Specific Gravity (Hardener)	1.05 (gm/cc)
(Resin)	1.12 (gm/cc)
(Mixed)	1.10 (gm/cc)

### CURED PROPERTIES

	<u>Test Method</u>	<u>7 Days @ 77° F.</u>
Hardness	ASTM D-2240	70-75 D
Tensile Strength	ASTM D-638	5350 psi
Elongation at Break	ASTM D-638	4 %
Tear Strength	ASTM D-624	300 ppi
Linear Shrinkage	ASTM D-2566	0.005 in./in.
Ultimate Flex Strength	ASTM D-790	9000 psi
Flex Modulus	ASTM D-790	250,000 psi
Notched Izod	ASTM D-256	0.5 ft.lbs/in.
Heat Deflection Temp (66psi)	ASTM D-648	60°C/140° F
Heat Deflection Temp (264psi)	ASTM D-648	n/a

**Agitate hardener and resin before mixing to ensure that the formula is homogeneous.**

Read Warranty on Back of Technical Data Sheet.

## **Warranty**

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### **Silicone & Epoxy Technology**

Phone: 631-920-5079      Fax: 631-920-0503

Place Orders To: [SalesSET@optonline.net](mailto:SalesSET@optonline.net)

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