

InnoTooling™ IE-644-03

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-644-03 is a tough, abrasion resistant elastomer formulated for room temperature hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
RoHS Compliance	RoHS Compliant		
Appearance	Amber		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Base Resin	1.11	g/cm ³	
Cured	1.12	g/cm ³	
Hardener	1.16	g/cm ³	
Molding Shrinkage - Flow	0.20	%	ASTM D2566
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 32		
Hardener	Mix Ratio by Weight: 34		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	180 to 300	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	2.4	Pa · s	
25°C ²	4.5	Pa · s	
25°C ³	5.0	Pa · s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	20 to 30	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	90 to 96		ASTM D2240

Tensile Strength	10.3	MPa	ASTM D638
Tensile Elongation at Break	110	%	ASTM D638
Tear Strength	30.6	kN/m	ASTM D624

NOTE

1.	Hardener
2.	Resin
3.	Mixed

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT