

PLASTICS

**TECHNOLOGY
LABORATORIES, INC.**

Dielectric Report Page 1 of 1

Testing	:	Dielectric Strength	
Test Method	:	ASTM D149-97a Method A	
Project Number	:	P20020604	Purchase Order # : 099539
Customer	:	Industrial Polymers, Inc.	
Attention	:	Carl Boddie	
Analyst	:	P. Swint	
Date	:	March 22, 2002	

Rate of Rise	:	2000 Volts/sec	
Sample Preparation	:	Textured surface removed with razor blade for electrode placement.	
Sample Conditioning	:	40+ Hours at 23°C/50% RH	
Electrode Size	:	0.25" diameter	
Surrounding Medium	:	Oil	
Test Specimen Type	:	2" x 4" plaque	
Test Conditions	:	23°C	
Uncertainty	:	ASTM D 6436 specifies that Dielectric Strength be reported to 3 significant digits	

Sample ID	Test Number	Failure Location On Electrode	Thickness (in)	Breakdown Voltage (kV)	Dielectric Strength (V/mil)
Speedliner 1000 Urethane elastomer	1	At electrode	0.135	44.2	327
	2	At electrode	0.161	48.0	298
	3	At electrode	0.185	49.9	270
	4	At electrode	0.177	45.6	258
	5	At electrode	0.183	43.6	238
	Average		0.168	46.3	278
	Std.Dev.		0.021	2.6	35

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