



SGS U.S. Testing Company Inc.

291 Fairfield Avenue  
Fairfield, NJ 07004  
Tel: 973-575-5252  
Fax: 973-575-8271

REPORT NUMBER: 136500-02  
DATE: February 15, 2000  
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REPORT OF TEST

CLIENT: GP Plastics  
One Plastics Avenue  
Pittsfield, Massachusetts 01201-3697

SUBJECT: Smoke Density

AUTHORIZATION: Client's Purchase Order Number P12903000.

SAMPLE ID: One (1) sample of material was submitted on February 3, 2000 and identified by the Client as: Lexan Thermoclear LTC3T16.

TEST PROCEDURE: The submitted sample was tested in accordance with the procedures outlined in ASTM D-2843-93, "Measuring the Density of Smoke from the Burning or Decomposition of Plastics".

TEST DATES: February 14, 2000.

RESULTS: See appended data sheets.

PREPARED BY:

Mark Ostrovsky, Technician  
Fire Technology

SIGNED FOR THE COMPANY BY:

John Van Houten  
Supervisor

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Member of the SGS Group

ANALYTICAL SERVICES • PERFORMANCE TESTING • STANDARDS EVALUATION • CERTIFICATION SERVICES

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Client: GE Plastics

SAMPLE ID: Lexan Thermoclear LTC3T16

TEST: SMOKE DENSITY  
METHOD: ASTM D2843-93

REPORT OF TEST

Parameter	Unit	Spec. 1	Spec. 2	Spec. 3	Avg.	Remarks
Thickness	Inch	0.63	0.63	0.63	0.63	
Spec. Size	Inch	1x1	1x1	1x1	1x1	
Spec. Weight	grams	2.0	2.0	2.0	2.0	
Propane Pressure	PSI	40	40	40	40.0	
TIME (Seconds)		LIGHT ABSORPTION (%)				
0	%	0	0	0	0.0	
15	%	1	1	1	1.0	
30	%	16	8	6	10.0	
45	%	38	20	26	28.0	
60	%	48	32	52	44.0	
75	%	30	34	24	29.3	
90	%	10	30	10	16.7	
105	%	6	18	7	10.3	
120	%	5	8	6	6.3	
135	%	5	6	6	5.7	
150	%	5	6	6	5.7	
165	%	5	6	6	5.7	
180	%	5	6	6	5.7	
195	%	5	6	6	5.7	
210	%	5	6	6	5.7	
225	%	5	6	6	5.7	
240	%	5	6	6	5.7	
Photocell Residue		black	black	black	black	
Visibility of 'EXIT' sign		low	low	low	low	
Smoke Color		black	black	black	black	
Flame Color		orange	orange	orange	orange	
Type of burning		moderate combustion with flaming dripping				

**CALCULATED VALUES:**

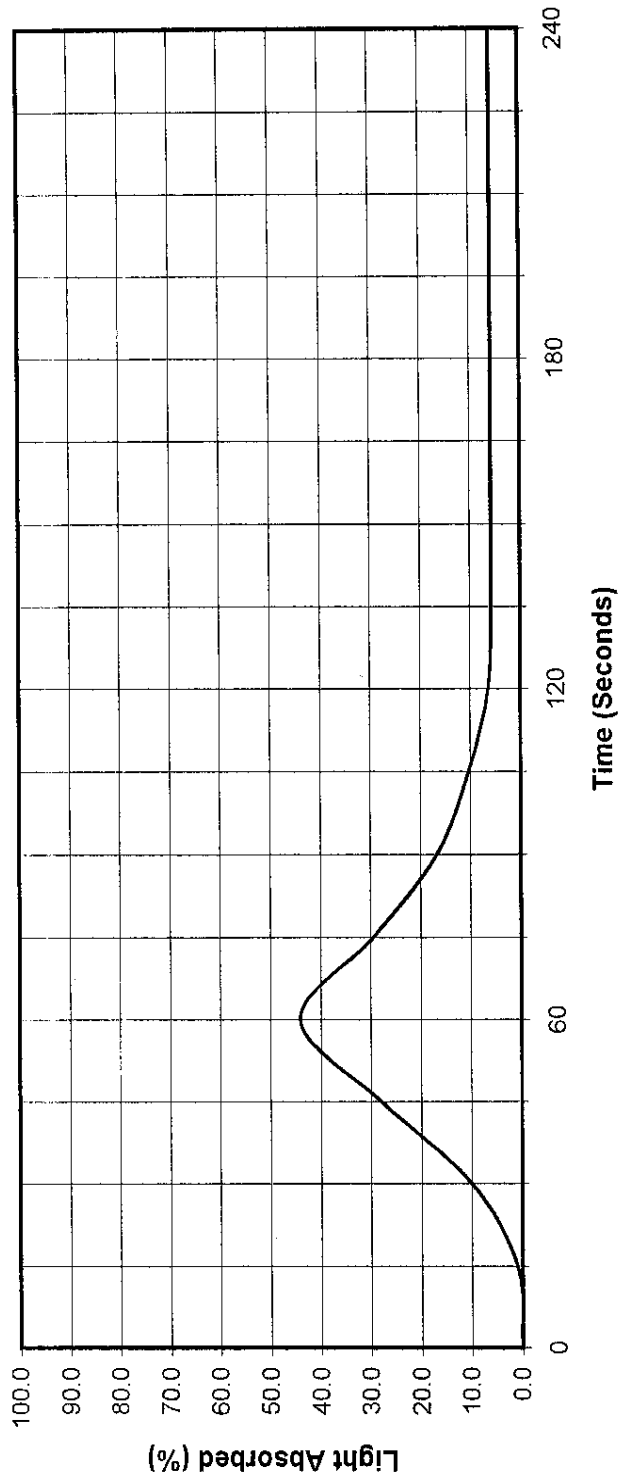
Maximum Smoke Density = 44.0 %  
 Area Under Curve = 2795.0 %-Sec  
 Max. Area = 24000.0 %-sec  
 SMOKE DENSITY RATING = 11.6 %

# REPORT OF TEST



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Average Light Absorption vs. Time



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End of Report