

Ford Engineering Material Specification: WSS-M15P20-B2, 3.3.12

In compliance with ES-E97B-1011014-AA, Flammability - Interior Trim

Material Name:	SPECFLEX RENUE LE / SPECFLEX NE 187 Bio-Based MDI Polyurethane Foam				
Supplier:	Dow Automotive Systems				
Authorizing Signature:	Kelly Kiszka	Date: 23-Feb-2012			
Test Facility:	The Dow Chemical Company USA Analytical Sciences Physical Testing Laboratory Midland, MI 48667				
LIMS ID: Test Procedure:					

B. Alternate Sampling Plan

The following sampling plan, based on a consumers risk of one percent, may be used in lieu of the Burn Rate Acceptance Chart. The sampling plan applies as follows:

G = M + S(M - m)

Where: M is the maximum burn rate in the sample n m is the minimum burn rate in the sample n S is a factor based on 1% consumer risk

Sample Siz	
4	1.62
5	.92
6	.62
8	.35
10	.24
12	.18

If G < 100 mm/min., the tested lot is accepted. If G \geq 100 mm/min., the tested lot is rejected

The Dow Chemical Company



Foam Flammability Certification

Specimen # Sample ID	Dimensions	Burn Length	Burn Time	Burn Rate	Burn				
		(mm)	(s)	(mm/min)	Туре				
1	P415	4" x 7" x 0.50"	177.8	191	55.85	В			
2	P415	4" x 7" x 0.50"	177.8	184	57.98	В			
3	P415	4" x 7" x 0.50"	177.8	165	64.65	В			
4	D472	4" x 6.5" x 0.50"	165.1	180	55.03	В			
5	D472	4" x 6.5" x 0.50"	165.1	174	56.93	В			
6	D472	4" x 6.5" x 0.50"	165.1	173	57.26	В			
7	P473	4" x 7" x 0.50"	177.8	179	59.60	В			
8	P473	4" x 7" x 0.50"	177.8	165	64.65	В			
9	P473	4" x 7" x 0.50"	177.8	150	71.12	В			
10	D258	4" x 6.5" x 0.50"	165.1	151	65.60	В			
11	D258	4" x 6.5" x 0.50"	165.1	146	67.85	В			
12	D258	4" x 6.5" x 0.50"	165.1	146	67.85	В			

Each specimen was cut to thickness on a vertical band saw.

Skin remained on one side of each specimen (skin side down during testing).

G Value (n=12) 74.02 mm/min ACCEPTED

(1) DNI: Did Not Ignite. The material does not support combustion during or after ignition.

(2) SE: Self Extinguishing. The material ignited, but did not burn to the timing zone.

(3) **SE/NBR**: Self Extinguishing with No Burn Rate.

The material stops burning before it has burned for 1 minute where timing has started.

- (4) **SE/B**: Self Extinguishing with Burn Rate.
- (5) **B**: Burn Rate in mm/min.