## 



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: April 29, 2013

Test Facility: The Dow Chemical Company USA

**Analytical Sciences Physical Testing Laboratory** 

Midland, MI 48667

LIMS ID: 74876

Test Procedure: FMVSS-302

## 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 Size	(n) S
4	1.62
5	.92
6	.62
8	.35
10	.24
12	.18

If G < 100 mm/min., the tested lot is accepted. If  $G \ge 100 \text{ mm/min.}$ , the tested lot is rejected



## **Foam Flammability Certification**

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

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

Skill formation of the side of each opening to the side down during to thing!								
Specimen #	Sample ID	Dimensions	Burn Length	Burn Time	Burn Rate	Burn		
			(mm)	(s)	(mm/min)	Type		
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		

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 1minute where timing has started.

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