



**TUV SUD America Inc.**  
**Product Safety Services**  
 47523 Clipper Drive  
 Plymouth, MI 48170  
 Phone: 734.455.4841

**IPEMA Surfacing Material Report – ASTM F1292-09**

Client: Hanover Specialties  
 Manufacturer: Hanover Specialties  
 Manufacturing Location: Bohemia, NY  
 Phone: 631-231-1300  
 Commercial Name of product: PIP Surfacing  
 Date of Manufacture: Unknown  
 No. of samples submitted: 3 Samples

TUV Report No.: QI1111342-1  
 Report Date: 12/21/2011  
 Test Date: 12/21/2011  
 Initial Test   
 Follow up Test  **Ref Job:**  
 Sample Receipt Date: 12/13/2011  
 Ambient Air Temperature: 22°C  
 Humidity: 20%

**Test Equipment:**

Triax System 1: <input checked="" type="checkbox"/>	Environmental Chamber No.: <b>PLYP00101</b>
Triax System 2: <input type="checkbox"/>	Calibration Due Date: <b>8/1/12</b>
Accelerometer ID: <b>PLYP00089</b>	Environmental Chamber No.: <b>PLYP00069</b>
Accelerometer Calibration Due Date: <b>6/1/2012</b>	Calibration Due Date: <b>8/1/12</b>

**Loose fill Material Sample Description:**

Engineered Wood Fiber: <input type="checkbox"/>	Un-compacted Depth: _____	Inches
Loose Fill Wood: <input type="checkbox"/>		
Rubber: <input type="checkbox"/>		
Sand: <input type="checkbox"/>	Compacted Depth: _____	Inches
Gravel: <input type="checkbox"/>		
Other: <input type="checkbox"/>		

**Unitary Sample Description:**

Tiles <input type="checkbox"/>	<b>Total Thickness:</b> <u>3.0 inches</u>
Poured in Place <input checked="" type="checkbox"/>	Top Layer: <u>0.5 inch</u>
Other <input type="checkbox"/>	Base Layer: <u>2.5 inches</u>

**Comments:**

The average HIC value when tested at -6°C was 975.5. The maximum allowable HIC value is 1000.

**The above described sample was tested at :        7        Ft.**

The results reported herein reflect the performance of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides an accurate representation of the test results.

**Sample in compliance with ASTM F1292-09 at the temperature and rating specified?                      Yes                       No**

Signature: *Kirk C. Smith*

Date: 12/22/2011

Reviewed by: *Tim Lockyer*

Date: 12/22/2011

Client: **Hanover Specialties**

TUV Report No. **QI1111342-1**

Manufacturer: **Hanover Specialties**

Test Date: **12/21/2011**

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)			Reference Temperature 23°C,(73.4°F)			Reference Temperature 49°C,(120.2°F)		
		G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1	7	150	889	21.4	143	863	21.2	132	764	21.2
2	7	168	973	21.4	146	890	21.2	136	802	21.2
3	7	161	978	21.3	150	909	21.3	139	817	21.3
Average		164.5	975.5		148	899.5		137.5	809.5	
Measured Surface Temperature		-6°C	Max. Change from reference +5°C ,(9°F)		23°C	Max. Change from reference 3°C ,(5.4°F) ±		49°C	Max. Change from reference -3°C ,(-5.4°F)	
Sample Condition:		DRY			DRY			DRY		

Drop	One foot over (Ft.)	Reference Temperature -6°C, (21.2°F)			Reference Temperature 23°C,(73.4°F)			Reference Temperature 49°C,(120.2°F)		
		G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference +5°C ,(9°F)		°C	Max. Change from reference 3°C ,(5.4°F) ±		°C	Max. Change from reference -3°C ,(-5.4°F)	
Sample Condition:										

Drop	One foot under (Ft.)	Reference Temperature -6°C, (21.2°F)			Reference Temperature 23°C,(73.4°F)			Reference Temperature 49°C,(120.2°F)		
		G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference +5°C ,(9°F)		°C	Max. Change from reference 3°C ,(5.4°F) ±		°C	Max. Change from reference 3°C ,(-5.4°F)	
Sample Condition:										



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