



No. 0307/ 222

To M-PE INSULATION CO., LTD.

The Department of Science Service presents the test report for the sample named "XPE" Laboratory No. ZA.60 as the total of 1 sample with reference to the request No. 8478 dated 6 December 2006.

Enclosed herewith the following result avails for your acknowledgement.



Physics and Engineering Program

Tel. 0 2201 7130

Fax 0 2201 7127

E-mail : physics@dss.go.th



TEST REPORT

Sample's name

XPE

Mark / Brand

Miron

Laboratory No.

ZA.60

Test Results

1. Density, kg/m ³	25.3
2. Tensile strength, N/cm ²	22.59
3. Elongation at break, %	102.08
4. Tear strength, N/cm	13.83
5. Water absorption, %	0.00040
6. Dimensional change on heating at 70 °C for 22 h	
- Change in width, %	0
- Change in length, %	-1.0
7. Compressive strength, N/cm ²	2.49
8. Ozone resistance : 50 pphm ozone 20% strain at 40 °C for 72 h	No cracks
9. Flammability	
- Flame class at minimum thickness 4.48 mm.	HBF
10. Chemical resistance	
- Acetic acid 5 %	Not changed
- Sulfuric acid 30 %	Not changed
- Hydrochloric acid 10 %	Not changed
- Sodium chloride solution 10 %	Not changed
- Ammonia 10 %	Not changed
- Nitric acid 10 %	Not changed

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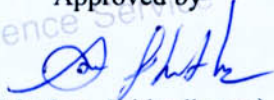
Department of Science Service, Ministry of Science and Technology
Rama VI Road, Ratchathewi, Bangkok 10400, Thailand

Singh

Laboratory No. ZA.60

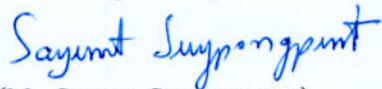
Customer's name M-PE INSULATION CO., LTD.
Customer's address 106 Soi 8 Ramkhamhaeng Rd., Hua-Mark, Bangkok, Bangkok 10240
Sample's description Gray Polyethylene foam, average thickness 4.69 mm.
Test date 12 December 2006 – 4 January 2007
Test method
- JIS K 6767 for item 1-6
- ASTM D 1621 for item 7
- ASTM D 1149 for item 8
- UL 94 Clause 12 Horizontal Burning Foamed Material Test ; HBF,
HF-1 or HF-2 for item 9
- ASTM D 1308 : Clause 3.1.1 : Spot Test, Covered for 24 h for item 10

Approved by


(Mr. Sun Jhitkraikroun)

Scientist 8

Reported by


(Mr. Sayunt Suypongput)

Scientist 6

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