



Plastics Technology Group
Plastics & Ceramics Programme
SIRIM Berhad
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CONFIDENTIAL

EVALUATION REPORT

Title: **Evaluation of "PC Hollow Sheet" and "PC Solid Sheet"**

Report No.: **PTC/ER05/454**

Date: **5 October 2005**

Project No.: **P05440**

Sample: **PC Hollow Sheet and PC Solid Sheet**

Company Name: **Marklon Industries Sdn. Bhd.**

Address: **No. 1, Jalan 8/155**
Bukit Jalil Industries
58200 Kuala Lumpur

Evaluated by:

Abdul Salam Hussain

Checked by:

Dr Norzalia Sulaiman



Approved by:

Dr Ahmad Fuad Md. Yusuf
Head
Plastics & Ceramics Programme



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Specification/Test Method:

- a) ASTM D 256 - 00 : Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
- b) ASTM D 635 - 98 : Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in Horizontal Position.

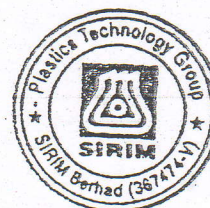
Conditioning of Sample Prior to Test:

The specimens were conditioned at $27 \pm 2^\circ\text{C}$ and $65 \pm 5\%\text{RH}$ in accordance to ISO 291: 1997 (tropical environment). The conditioning period was at least 40 hours.

Sample Identification:

- a) Five (5) kg of resin indicated as 'PC Hollow Sheet - Marklon Polyglass PC Hollow Sheet' was received on 19 September 2005.
- b) Twenty one (21) pieces of rectangular test specimen indicated as 'PC Solid Sheet - Marklon Polyglass PC Solid Sheet (MK 95 3mm Clear Plane)' were received on 27 September 2005.

Confirmation for test was received on 27 September 2005.



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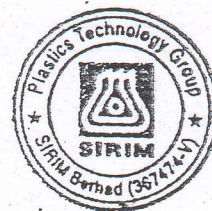
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Sample Preparation:

The test specimens for Izod Impact and Flammability tests of 'PC Hollow Sheet' were prepared using injection moulding technique with the following parameters:

INJECTION MOULDING PARAMETERS	
Machine type:	Arburg 750-210 320 D
Temperature, °C:	
a) Barrel; Feed Zone	190
b) Barrel; Zone 2	290
c) Barrel; Zone 3	315
d) Nozzle	315
Clamping Pressure, bar	100
Injection Pressure, bar	1,050
Injection Speed, %	5
Holding Pressure, %	20
Holding Time, sec	3
Cooling Time, sec	25
Cycle Time, sec	45



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Results:**"PC Hollow Sheet"**

No.	Property	Result	Test Method
1	Izod Impact (notched), J/m	908	ASTM D 256 Pendulum: 7.5 Joule
2	Flammability, mm/minute	The flame front did not reach or pass the 25 mm reference mark.	ASTM D 635

"PC Solid Sheet"

Property	Result	Test Method
Flammability, mm/minute	The flame front did not reach or pass the 25 mm reference mark.	ASTM D 635

