

使用FM912造PC/ABS物性測試報告

SGS
材料及工程實驗室-高雄

試驗報告

報告號碼: KV-10-02978X
頁數: 1 OF 4
日期: 99年04月27日

億訊塑膠複合材料有限公司
高雄市楠梓區右昌街143巷30弄7號

本實驗室依照委託單位之要求,根據委託單位所提供之樣品敘述如下:

樣品名稱: FM900系列-FM912
顏色: 原色

本實驗室依照委託單位之要求,根據委託單位所提供之樣品進行試驗,結果如下:

委託試驗要求: (依照客戶提供之測試規格進行試驗,詳細內容請參照附頁。)

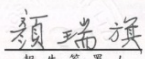
1. 密度(23°C)
2. 熔融指數(230°C/3.8kg)
3. 吸水率(23°C, 24hrs)
4. 抗拉強度及伸長率
5. 彎曲強度
6. 彎曲彈性模數
7. IZOD 衝擊強度
8. 熱變形溫度(1.82MPa)

試驗結果: --如附頁所示--

收件日期: 99年04月07日

試驗日期: 99年04月07日-99年04月21日

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頁數: 2 OF 4
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試驗設備:

名稱	廠牌	型號	序號
精密天平	METTLER TOLEDO	AG204	114293614
老化試驗機	全華	PID-96	---
熔融指數試驗機	CEAST	6942	15930
萬能試驗機	INSTRON	4466	H2049
萬能試驗機	INSTRON	5569	P6730
擺錘式衝擊試驗機	CEAST	6957	16511
熱變形溫度試驗機	CEAST	691100060	19919

試驗方法:

ASTM D792-08 Standard Test Method for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
(Method A - Testing Solid Plastics in Water)

ASTM D1238-04c Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer.
(Procedure A—Manual Operation)

ASTM D570-98 Standard Test Method for Water Absorption of Plastics.

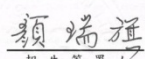
ASTM D638-08 Standard Test Method for Tensile Properties of Plastics.

ASTM D790-07 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
(Procedure A)

ASTM D256-06a Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
(Method A)

ASTM D648-07 Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
(Method B)

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實驗室環境條件:

 環境溫度: (25±3)°C
 相對濕度: (50±5)%

試件狀態調節:

 調節溫度: (23±2)°C
 調節濕度: (50±5)%
 調節時間: 48 小時

試驗結果:

試驗項目	試驗結果
密度(g/cm ³)(23°C)	1.168
熔融指數(g/10min)(230°C/3.8kg)	3.56
吸水率(%)(23°C, 24hrs)	0.21
抗拉強度(Mpa)	58.6
斷裂伸長率(%)	113
彎曲強度(Mpa)	100.8
彎曲彈性模數(Mpa)	2650
IZOD 衝擊強度(J/m)	642.01(H)
熱變形溫度(°C)	119.3

- 註: 1. 抗拉強度及伸長率試驗試片型式為 ASTM D638 Type I, 拉伸速率為(50.0±0.5)mm/min。
 2. 彎曲強度試驗程序依 Procedure A, 試驗跨距為 52mm。
 3. IZOD 衝擊強度擺錘標稱能量為 7.5J, 試驗結果之括弧內為斷裂型式; 斷裂型式如下:
 C: 完全斷裂(Complete break)
 H: 絞鏈式斷裂(Hinge break)
 P: 部分斷裂(Partial break)
 NB: 未斷裂(Non-break)
 4. 熔融指數試驗條件: 230°C, 荷重 3.8 kg。
 5. 熱變形溫度試驗條件: 1.82 MPa, 升溫速率(2.0±0.2)°C/min。
 6. 測試試片由委託單位製作成型提供。

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樣品照片:



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