

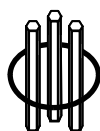
HK PETRO

General Purpose Polystyrene - N 1841

| Property | Test method | Unit | Typical values |
|---|-------------|---|-------------------|
| General properties | | | |
| Specific gravity | ASTM D792 | g/cm ³ | 1.04 |
| Bulk density of granules | ASTM D1895 | kg/dm ³ | 0.65 |
| Mechanical properties | | | |
| Izod impact strength, notched, at 23°C - 3.2mm thick specimen | ASTM D256 | kg.cm/cm J/m | 1.3 13 |
| Tensile properties (type I specimen, thickness 3.2mm - speed B): - tensile strength - elongation at break - elastic modulus | ASTM D638 | N/mm ² % N/mm ² | 45 1.8 3250 |
| Flexural properties (3.2mm thick specimen): - maximum stress - elastic modulus | ASTM D790 | N/mm ² N/mm ² | 80 3200 |
| Rockwell hardness, M scale | ASTM D785 | | 80 |
| Thermal properties | | | |
| Heat deflection temperature (12.7mm thick specimen - 1.82 N/mm ²) | ASTM D648 | °C | 84 |
| Vicat softening point, oil, speed 50 ± 5 °C/h; - 1kg load - 5kg load | ASTM D1525 | °C °C | 95 90 |
| Rheological properties | | | |
| Melt flow index (condition G - 200°C, 5kg) | ASTM D1238 | g/10 min | 10 |

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The above data are provided for guidance purposes only. Hong Kong Petrochemical Co. Ltd. accepts no responsibility for the results obtained therefrom, as neither for their utilization in infringement of possible patent rights.



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HK PETRO

通用級聚苯乙烯 - N 1841

| 測試項目 | 測試方法 | 單位 | 數值 |
|---|------------|--------------------|------|
| 一般性能 | | | |
| 比重 | ASTM D792 | g/cm ³ | 1.04 |
| 堆積密度 | ASTM D1895 | kg/dm ³ | 0.65 |
| 機械性能 | | | |
| 懸臂樑衝擊強度 | ASTM D256 | kg.cm/cm | 1.3 |
| - 樣本厚 0.32 公分 | | J/m | 13 |
| 拉伸性能 | ASTM D638 | | |
| (第一類樣本, 厚 0.32 公分, 速度 B) | | | |
| - 拉伸強度 | | N/mm ² | 45 |
| - 伸長率 | | % | 1.8 |
| - 彈性模數 | | N/mm ² | 3250 |
| 撓曲性能 | ASTM D790 | | |
| (樣本厚 0.32 公分) | | | |
| - 最大壓力 | | N/mm ² | 80 |
| - 彈性模數 | | N/mm ² | 3200 |
| 洛氏硬度, M 級 | ASTM D785 | | 80 |
| 熱性能 | | | |
| 熱變形溫度 | ASTM D648 | °C | 84 |
| (樣本厚 1.27 公分, 壓力 1.82 N/mm ²) | | | |
| 維卡軟化點 (升溫速度 50 ± 5 °C/小時) | ASTM D1525 | | |
| - 負重一公斤 | | °C | 95 |
| - 負重五公斤 | | °C | 90 |
| 流動性能 | | | |
| 熔流指數 | ASTM D1238 | g/10 min | 10 |
| (測試條件 G - 200°C, 五公斤) | | | |

2002年 10月

上列數據乃依照所述測試方法得出之結果, 所有數據僅供作參考之用, 並非產品之規格。



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