

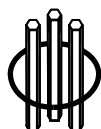
# HK PETRO

## High Impact Polystyrene - PD R 751

Property	Test method	Unit	Typical values
<b>General properties</b>			
Specific gravity	ASTM D792	g/cm <sup>3</sup>	1.04
Bulk density of granules	ASTM D1895	kg/dm <sup>3</sup>	0.65
<b>Mechanical properties</b>			
Izod impact strength, notched, at 23°C - 3.2mm thick specimen	ASTM D256	kg.cm/cm J/m	18.5 188
Tensile properties (type I specimen, thickness 3.2mm - speed B): - yield strength - tensile strength - elongation at break - elastic modulus	ASTM D638	N/mm <sup>2</sup> N/mm <sup>2</sup> % N/mm <sup>2</sup>	22 25 55 2300
Flexural properties (3.2mm thick specimen): - maximum stress - elastic modulus	ASTM D790	N/mm <sup>2</sup> N/mm <sup>2</sup>	43 2050
Rockwell hardness, L scale	ASTM D785		72
<b>Thermal properties</b>			
Heat deflection temperature (12.7mm thick specimen - 1.82 N/mm <sup>2</sup> )	ASTM D648	°C	86
Vicat softening point, oil, speed 50 ± 5 °C/h; - 1kg load	ASTM D1525	°C	98
- 5kg load		°C	91
<b>Rheological properties</b>			
Melt flow index (condition G - 200°C, 5kg)	ASTM D1238	g/10 min	3.3

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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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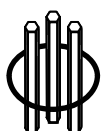
# HK PETRO

## 高抗衝擊聚苯乙烯 - PD R 751

測試項目	測試方法	單位	數值
<b>一般性能</b>			
比重	ASTM D792	g/cm <sup>3</sup>	1.04
堆積密度	ASTM D1895	kg/dm <sup>3</sup>	0.65
<b>機械性能</b>			
懸臂樑衝擊強度	ASTM D256	kg.cm/cm	18.5
- 樣本厚 0.32 公分		J/m	188
拉伸性能	ASTM D638		
(第一類樣本, 厚 0.32 公分, 速度 B)			
- 屈服強度		N/mm <sup>2</sup>	22
- 拉伸強度		N/mm <sup>2</sup>	25
- 伸長率		%	55
- 彈性模數		N/mm <sup>2</sup>	2300
撓曲性能	ASTM D790		
(樣本厚 0.32 公分)			
- 最大壓力		N/mm <sup>2</sup>	43
- 彈性模數		N/mm <sup>2</sup>	2050
洛氏硬度, L 級	ASTM D785		72
<b>熱性能</b>			
熱變形溫度	ASTM D648	°C	86
(樣本厚 1.27 公分, 壓力 1.82 N/mm <sup>2</sup> )			
維卡軟化點 (升溫速度 50 ± 5 °C/小時)	ASTM D1525		
- 負重一公斤		°C	98
- 負重五公斤		°C	91
<b>流動性能</b>			
熔流指數	ASTM D1238	g/10 min	3.3
(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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