

HK PETRO

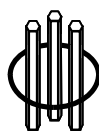
General Purpose Polystyrene - N 1381

Light Guide material

Property	Test method	Unit	Typical
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	1.8
Tensile properties	ASTM D638		
- tensile strength		N/mm ²	50
- elongation at break		%	2.1
- elastic modulus		N/mm ²	3200
Flexural properties (3.2mm thick specimen):	ASTM D790		
- maximum stress		N/mm ²	100
- elastic modulus		N/mm ²	3100
Rockwell hardness, M scale	ASTM D785		80
Thermal properties			
Heat deflection temperature (12.7mm thick specimen - 1.82 N/mm ²)	ASTM D648	°C	96
Vicat softening point, oil, speed 50 ± 5 °C/h;	ASTM D1525		
- 1kg load		°C	106
- 5kg load		°C	102
Rheological properties			
Melt flow index (condition G - 200°C, 5kg)	ASTM D1238	g/10 min	1.8
Optical properties			
Total luminous transmittance (thickness 4mm)	ASTM D1003	%	90.26
Total luminous transmittance (thickness 1.5mm)	ASTM D1003	%	90.34
Haze	ASTM D1003		0.30
Brightness	ASTM D1925	%	96.0
Color	-	-	Non-blue

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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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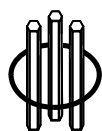
通用級聚苯乙烯 - N 1381

導光料

測試項目	測試方法	單位	平均值
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	1.8
- 樣本厚 0.32 公分		J/m	18
拉伸性能	ASTM D638		
- 拉伸強度		N/mm ²	50
- 伸長率		%	2.1
- 彈性模數		N/mm ²	3200
撓曲性能	ASTM D790		
(樣本厚 0.32 公分)			
- 最大壓力		N/mm ²	100
- 彈性模數		N/mm ²	3100
洛氏硬度, M 級	ASTM D785	-	80
熱性能			
熱變形溫度	ASTM D648	°C	96
(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	106
- 負重五公斤		°C	102
流動性能			
熔流指數	ASTM D1238	g/10 min	1.8
(測試條件 G - 200°C, 五公斤)			
光學性能			
全色域透光率 (樣本厚 4mm)	ASTM D1003	%	90.26
全色域透光率 (樣本厚 1.5mm)	ASTM D1003	%	90.34
Haze	ASTM D1003	-	0.30
Brightness亮度	ASTM D1925	%	96.0
顏色	-	-	無色

2018年12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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