

HK PETRO

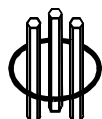
High Impact Polystyrene - SRL 700 H

Environmental Stress Crack Resistance (ESCR)

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 - 0.32 cm thick specimen	ASTM D256	kg.cm/cm J/m	13.7 135
Tensile properties (type I specimen, thickness 3.2mm - speed B):	ASTM D638		
- yield strength		N/mm ²	18.0
- tensile strength		N/mm ²	19.0
- elongation at break		%	60
- elastic modulus		N/mm ²	1590
Flexural properties (3.2mm thick specimen):	ASTM D790		
- maximum stress		N/mm ²	36.2
- elastic modulus		N/mm ²	1594
Rockwell hardness, L scale	ASTM D785		
Thermal properties			
Heat deflection temperature (12.7mm thick specimen - 1.82 N/mm ²)	ASTM D648	°C	83.0
Vicat softening point, oil, speed 50 ± 5 °C/h; - 5kg load	ASTM D1525	°C	90.3
Rheological properties			
Melt flow index (condition G - 200°C, 5kg)	ASTM D1238	g/10 min	3.6
Optical properties			
Gloss			
Specular Gloss 60°	ASTM D 523	%	9.0
ESCR Rating	Internal method	%	> 85

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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.



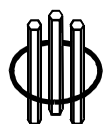
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測試項目	測試方法	單位	數值
一般性能			
比重	ASTM D792	g/cm ³	1.04
堆積密度	ASTM D1895	kg/dm ³	0.65
機械性能			
懸臂樑衝擊強度	ASTM D256	kg.cm/cm	13.7
- 樣本厚 0.32 公分		J/m	135
拉伸性能	ASTM D638		
(第一類樣本, 厚 0.32 公分, 速度 B)			
- 屈服強度		N/mm ²	18.0
- 拉伸強度		N/mm ²	19.0
- 伸長率		%	60
- 彈性模數		N/mm ²	1590
撓曲性能	ASTM D790		
(樣本厚 0.32 公分)			
- 最大壓力		N/mm ²	36.2
- 彈性模數		N/mm ²	1594
洛氏硬度, L 級	ASTM D785		
熱性能			
熱變形溫度	ASTM D648	°C	83.0
(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		
- 負重五公斤		°C	90.3
流動性能			
熔流指數	ASTM D1238	g/10 min	3.6
(測試條件 G - 200°C, 五公斤)			
光學性能			
光澤度			
鏡面光澤 60°	ASTM D 523	%	9.0
ESCR 性能	內部方法	%	> 85

2021年5月

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



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