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PVT-6000 聚合物PVT測試儀 Polymer PVT tester

PVT為分析聚合物在壓力、體積、溫度下的變化，利用固定的腔膜加溫構造，讓聚合物的體積固定，透過多段不同壓力、溫度下的體積密度變化，求出注射模朔型生產過程的最佳工藝參數，使其加工中所產生的翹曲、收縮、氣泡、縫合線的缺陷減少，進而減少報廢率增加生產率，獲得高品質的產品效能。

PVT-6000 is used to analyze the specific volume of plastics as a function of temperature and pressure in both the molten and solid states. During the PVT test, the polymer is formed through constant or stepwise pressure and temperature to determine its specific volume. The PVT data is then applied to mold flow analysis to simulate the accuracy and stability of injection molding. Once the injection molding is optimized, as a result, not only the working efficiency and quality of polymer production are increased, but also the defects during injection molding process, such as, shrinkage, sink marks and warpage are reduced and eliminated.

型號 Model	PVT-6000L	PVT-6000H
試驗容量 Capacity	200 bar to 1200 bar (2500 bar 選購 optional)	200 bar to 2500 bar
測試模式 Test method	等壓、等溫 Isobaric / Isothermal	
溫度範圍 Temp. range	常溫 Ambient temp. +10°C ~ 300°C	常溫 Ambient temp. +10°C ~ 400°C
溫度誤差 Temp. accuracy	小於 ±0.3°C	
溫度解析度 Temp. resolution	0.1°C	
溫度控制器 Temp. controller	PID	
料管直徑 Barrel diameter	7.8 mm	
上下柱塞直徑 Piston diameter	7.76 mm	7.8 mm
料管測試長度 Barrel test distance	10 ~ 23 mm	
壓力精確度 Pressure accuracy	±2%	
壓力控制器 Pressure controller	PID	
力量感應方式 Load detector	荷重元 Load cell	
荷重分辨率 Load resolution	1/30,000	
荷重精確度 Load accuracy	0.25%	
位移感應方式 Displacement detector	高精度光學尺 Linear encoder system	
位移分辨率 Displacement resolution	1μm	
控制軟體 Software	PVT-6000 專屬系統	
控制面板 Control panel	4.3吋觸控螢幕人機介面 4.3" touchscreen	
測試照明燈 Lamp	LED燈源 LED lamp	
加熱冷卻系統 Heating and cooling system	整合冷卻功能於加熱器中的複合型裝置 Integrated heating and cooling system	
加熱控制 Heating control	RKC溫控模組 RKC temp. module	
冷卻控制 Cooling control	高精度PID控制氣壓流量閥，可穩定控制降溫速率 High-precision PID air regulating valve	
電源 Power	1φ · AC 220V · 10A (依國別或指定 or specify)	



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