



Pressure Measurement Film PRESCALE Applicatio Examples

Application



Measured Object	Uses	Benefits
	Adjustment of molds and injection molding machines	Longer mold life Higher component yield Malfunction analysis
Injection Molding Machines, Molds		

Industry Molding, mold making, injection molding machine manufacture		
Applications	Checking for PL (Parting Line) surface contact, checking for distortion of molds and molding machines	
Challenges	 Since molds are composed of multiple parts, dimensional errors of each part tend to accumulate in the thickness direction. This means that the precision of the height of each part of the PL surface can deviate significantly from its intended value, resulting in excessive contact pressure, the failure of parts to make necessary contact, or the generation of burrs. When force is applied to clamp a mold, the platen tends to bend, which in turn causes the mold to bend. As a result, the thickness precision of the molded product deteriorates, leading to uneven wear and shortened mold life. 	

Measurement

Product used: Prescale (LW, MS, HS)

- 1) When a new mold has been fabricated, or during production, insert the Prescale between the PL surfaces and measure the pressure distribution. (Application 1)
- 2) To check the impact of platen bending, insert Prescale between the platen and the mold and measure the pressure distribution. (Application 2)

Application 1

Checking mold PL surface contact

Insert the Prescale between PL surfaces and clamp the mold.

The Prescale must be cut to fit the shape of the PL surfaces. The pressure can be visualized in accordance with the density distribution of the color-developed Prescale. The following checks can be made:

- · Check that PL surfaces are even
- · Check that contact is not one-sided
- · Find the points where contact is stronger than intended
- · Check that there is no risk of burr formation, due to failure of contact where contact is necessary



Insert Prescale between the mold and fixed side platen (movable side platen) and clamp the mold. The Prescale must be cut to fit the shape of the locating ring and screw holes. The pressure can be visualized by the density distribution of the color-developed Prescale, thereby making it possible to assess the degree of distortion of the molding machine when the mold is clamped.



*Note that the specifications and performance data described in this catalog are subject to change without notice for the purpose of improvement. Since images are used for illustration purposes, they may differ slightly from the actual product.

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