Reduce molding defects caused by oxygen. Saving space can be done by built-in unit.

Nitrogen gas supply control system N_2Seal

N_2Seal appearance

Concept

- The system suppresses resin oxidation by placing the nitrogen in the cylinder with a nitrogen gas generator.
- By suppressing yellowing due to resin oxidation and carbide adhesion on the screw.

Features

- It has achieved space savings by incorporating the industry's smallest class nitrogen gas generator into the molding machine.
- It can be operated on the molding machine screen for controlling nitrogen gas supply/stop and also monitoring oxygen concentration and nitrogen gas flow rate.

*Compatible with Si-6 and later

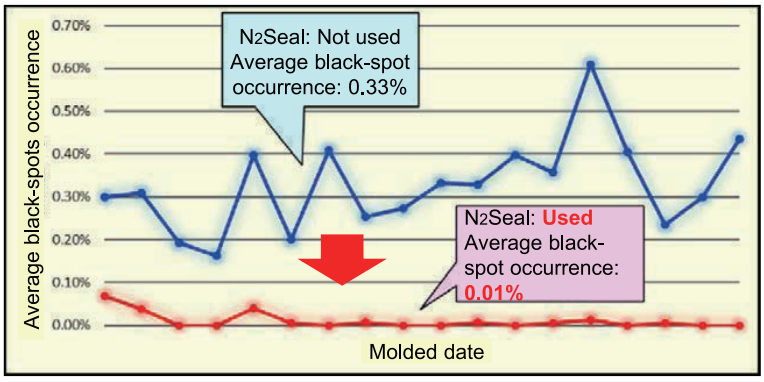
Specification

Separation method	PSA method
N_2 gas purity	99.9 %
N_2 gas flow rate	10 - 18 L/min
N_2 gas pressure	0.3 - 0.4 MPa
Required air volume	45 L/min or more
Supply air compressor pressure	0.5 - 0.85 MPa

N_2Seal operation & setting screen

Advantage

- Reduction of defective rate caused by black spots.



[Resin: PPS, Period: 4 months]

- Reduction of carbide adhesion to screws

N_2Seal is not used.

Carbide is attached.

N_2Seal is used.

Almost no carbide is attached.

[Resin: PPS, Period: 4 months]

TOYO MACHINERY & METAL