

FREQUENTLY ASKED QUESTIONS

LUBRICANTS

Q) In what areas of thermoplastic processing are lubricants used?

A) Lubricants are used in thermoplastic processing mainly for ejector pins, sliders, nozzles and conveyor belts to avoid seizing or blocking of these moving parts. Lusin® Lub PZO 152 is an example of such a lubricant that operates at a temperature of up to 150°C.

Q) Is it possible to prevent lubricants for ejector pins from being transferred to demolded parts?

A) Low-quality or non-specialized lubricants are often not thermally stable; the film created by these lubricants can come off the ejector pins and reach the tips of the pins, where the material may be transferred to the parts and end up as a deposit on the demolded part. Thermally stable, special purpose lubricants have been



developed for ejector pin applications that will remain on the ejector pins and will not be transferred during processing.

Q) Are there any lubricants developed specifically for high-temperature thermoplastic applications?

A) Most lubricants used at temperatures above 150°C tend to dry out and their lubrication performance stops. The lubrication effect above that temperature is usually a dry lubrication process that is not suitable for small ejector pins. Specific lubricant formulations have been developed to be used at higher temperature applications such as Lusin® Lub PY 300 F, which operates at a temperature of up to 270°C.



Q) How long does the lubricating effect of Lusin® products last?

A) The duration of the lubrication effect is dependent on the type of application and the tool cycle time. Lusin® lubricants are found to be long-lasting and very economical in use in general. Specific results depend on the respective application.

Q) In what types of containers are Lusin® lubricants available?

A) Depending on the particular product required, Lusin® lubricants are available as aerosols, tubes or cans.

Q) Is it normal that Lusin® Lub PZO 152 becomes a white, dry film on the pin surface during processing?

A) It is normal that Lusin® Lub PZO 152 appears as a white, dry film during

processing; it will not become black and will not transfer during processing.

Q) What is the best application for Lusin® Lub PZO 152 in aerosol format as opposed to paste format?

A) Lusin® Lub PZO 152 aerosol promotes a thin layer of lubricant and allows for fast application on ejector pins. Therefore, it is best utilized for production situations where there are high production demands with no time to remove the mold from the machine to undertake preventive lubrication.

If there is the possibility to conduct preventive lubrication with the mold removed, then Lusin® Lub PZO 152 paste is the best choice.

Q) What will happen to Lusin® PM 1001 after it is exposed to high temperatures?

A) Lusin® PM 1001 will dry at high temperatures, but it will continue to provide the lubrication and anti-seize properties that the product was designed to deliver.