

Rulon[®] 945 Solves an Injection Molding Defect

■ A partnership with TriStar gives you a competitive edge.



Rulon 945 Bearings

Injection molding requires precision fabrication. There's no room for any defect, since defective parts mean defective devices.

When our client noted defects on their finished parts, our support team discovered the cause was a thick residue of plastic left behind on the tips of the injection nozzles. Each time the nozzle was removed after filling the mold, the accumulated plastic on the tip left an indentation on the newly-formed part.

Tests revealed that the polyimide tips were poorly insulated and unable to tolerate the cooler, surrounding mold inserts. Without the right insulation, the molding material was being drawn back into the nozzle, which caused the residue.

High-temperature Rulon 945 replaces polyimide

Rulon 945's exceptional thermal properties immediately eliminated the residue.

With a temperature range of -400° to +550° F, the material is able to keep the temperature differences between the tips and the surrounding mold very close, thus eliminating the residual plastic accumulation.

The material has even allowed our client to push their operating temperatures up to 600°F without any degradation, and with minimal expansion.

With a controlled temperature tip, the nozzles have not left further flaws on the molded parts.

Rulon 945 offers:

- Good dimensional stability
- Superior chemical resistance
- Low-wear and deformation under load

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp[®]

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel[™]

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon[®]

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



TriStar



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