

Rubber Processing Additives

INTEC TECHNOLOGY - FROM ITPS (International Technical Polymer Systems)

ITPS has developed a molding and extrusion technology designed to significantly improve productivity and lower reject rates in a broad range of Rubber parts used in automotive and industrial markets.

This technology is of benefit to companies to help reduce the supply chain costs of OE manufacturers for most rubber products used in a final part or assembly. The technology consists of a unique advanced material additive process aid INTEC, that when added to Rubber formulations can improve flow to solve underfill or poor knit line problems, improve extrusion rates, reduce mold fouling, improve demolding, and lower scrap rates. All of these factors result in improved productivity and hence lower part costs. Unlike many other additives, the INTEC technology functions without any negative effects on part property or performance.

The product line includes INTEC TG, which functions in a range of organic elastomers including Natural Rubber, SBR, EPDM, Nitrile and CPE, INTEC Fluoro Flow for Fluoroelastomers, and INTEC Teksil MRB for Silicone Rubber. For example, in Nitrile and EPDM rubber molding, INTEC TG has demonstrated significant improved flow, improved knitting, and improved mold release. This resulted in a substantial reduction in reject rates. Also the need for mold cleaning was substantially reduced from several days to over 4 weeks. In EPDM and NBR extrusion, INTEC TG has increased extrusion rates, lowered power draw (at equivalent rpm) and reduced die drag. This was achieved through a combination of optimization of both the Intec level and process conditions.

INTEC Fluoro Flow has demonstrated in Fluoroelastomers a significant increase in mold flow and mold release with superior performance compared to more traditional process additives. This has been of particular significance for parts with large under-cuts.

Contact us for additional information on the use of INTEC products in Rubber applications.