



THE CRITICAL PROPERTIES TO CONSIDER WHEN SELECTING PLASTICS FOR CONVEYANCE



THE PERFORMANCE OF YOUR CONVEYOR SYSTEM
DIRECTLY AFFECTS YOUR BOTTOM LINE!

TODAYS CONVEYOR SYSTEMS CONSIST OF EXTREMELY COMPLEX DESIGNS WITH MANY MOVING PARTS, REQUIRING HIGHLY ENGINEERED PLASTIC WEAR COMPONENTS.

Demanding conveyor environments rely on robust plastic solutions that can consistently and reliably support the transportation of high volumes of material. Engineers are challenged with finding the proper materials to minimize line stoppage while increasing the efficiency of transporting goods from one place to another. Lets highlight the most critical properties that lead to the optimization of plastic conveyor components.

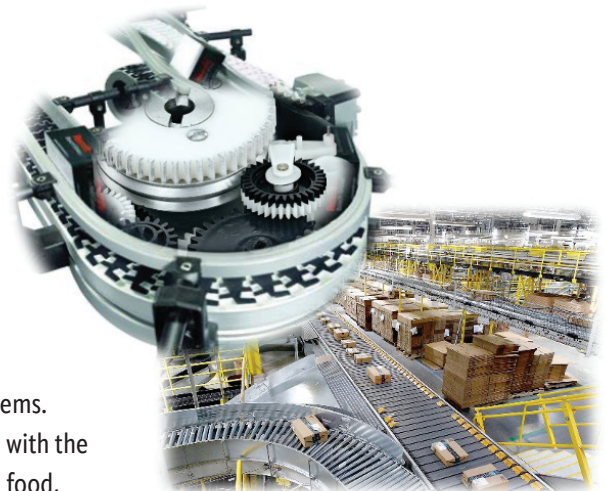
COEFFICIENT OF FRICTION (COF) – By decreasing the coefficient of friction, drive chains move more easily rendering the system more efficient with the added benefit of reducing the amount of power that is needed to drive the conveyor.

ABRASION RESISTANCE – Abrasion resistance is a property that allows a material to resist wear. Excellent abrasion resistance of a material helps to withstand mechanical action and tends to protect the removal of materials from its surface. This allows the material to retain its integrity not to mention last longer. Many materials are specifically formulated for high abrasion resistance.

THERMAL – Often conveyor materials need to withstand elevated heat environments. In this case one needs to understand the operating temperature of the plastic and match it to the application needs. COF and Thermal are co-dependent in conveyor environment.

COEFFICIENT OF THERMAL LINEAR EXPANSION (CLTE) – CLTE is the rate at which the size of a material changes with respect to temperature change. It is critical to consider and properly match CLTE of the material to the requirements of the system in order to hold tolerance.

The market is full of choices and varieties of polymer solutions for conveyance systems. Its critical to be able to sift thought the menu of options and selection the material with the correct properties and chemistry that best suits your application. Whether moving food, mining products, semi liquids or packages Liard Plastics is available to assist you in making your decision.



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