

# POLYOLEFIN SLIPS



Slips are commonly utilized across many manufacturing processes to prevent sticking, reduce friction to improve mold release, enhance surface finishes, and extend the life of the mold.

## Extrusion Blow Molding

Reducing overall friction between plastic and mold surfaces enables improved parison shaping leading to enhanced material distribution inside the mold. Slips also improve the final bottle aesthetics by reducing imperfections caused by mold sticking. Successful mold release and improved bottle quality improve operational efficiencies and reduce material scrap.

## Injection Molding

Successful and efficient mold release is a critical aspect of fast-paced injection molding operations. By eliminating sticking during the cooling process, caps, closures, tubs, and containers can be ejected more rapidly, providing opportunities to reduce cycle times and improve productivity. Improvements in stacking and overall handling of end articles is improved through the reduction of friction from slip content. The life of a mold can be extended with slips by reducing the wear and tear over the time.



Code	LDR%	Carrier	Type	Applications
60PA7491	2.5%	PP	Pellet	PP/Living Hinge
62PA21337	2.5%	PE	Pellet	High Crystallinity Applications
62PA21338	2.5%	PE	Pellet	PE/PP Applications

## Polyethylene

CoF values using 2.5% LDR of masterbatch in HDPE. Data was collected using 0.762mm thick cast film.



Sample	LDR%	AVE CoF	Ave Std Deviation
Polyethylene	Control	0.18	0.02
62PA21337	2.5%	0.13	0.02
62PA21338	2.5%	0.12	0.02

## Polypropylene

CoF values using 2.5% LDR of masterbatch in PP. Data was collected using 0.762mm thick cast film.

Sample	LDR%	AVE CoF	Ave Std Deviation
Polypropylene	Control	0.17	0.03
60PA7491	2.5%	0.12	0.02



We offer our polyolefin slip solutions around the globe in an easy to dose pellet solution. Designed for optimal performance in polyethylene and polypropylene extrusion blow-molding and injection molding applications across the Food and Beverage, Personal and Home Care applications. Consultation with Penn Color regarding your unique application and specific requirements ensures that the recommended product and dosage levels align with your desired outcomes.

### IMPORTANT INFORMATION

ISO 9001 Certified

LDR recommendation is intended for guidance only and may need to be adjusted based on performance, processing method and regulatory requirements. Detailed compliance documentation can be provided by Penn Color's Product Stewardship Department upon request. However, be advised it is the responsibility of the user to assess its product uses and applications and assure compliance to all applicable laws and regulations, including FDA 21 CFR and EU food contact status. Regional coding suffixes may apply.