Dow Packaging and Specialty Plastics

Combining High Brilliance and Excellent Processability

DOWLEX™ 4056G Sealant Resin

Sealant Solutions from Dow

Dow's sealants portfolio offers you an extensive line of resin solutions. Dow Sealants are designed to suit a broad range of sealing requirements and different production processes while providing a versatile choice to meet today's packaging needs.

The family of DOWLEX™ Polyethylene Resins has long been considered the market benchmark. With DOWLEX™ 4056G, Dow raises the bar with an innovative sealant offering optimal balance between higher production efficiency and optics for co-extruded films and laminates.

Dowlex™ polyethylene resins

Processability and Optics

Flexible packaging manufacturers are increasingly demanding blown and cast film resins that offer excellent processability on film conversion equipment and packaging lines.

As one of the premier suppliers of flexible packaging film resins, Dow is meeting this need with DOWLEX™ 4056G, which exhibits the physical and mechanical characteristics to make it a preferred choice for high throughput lamination applications, combining a good balance of optical and mechanical properties, high throughput efficiency and excellent sealability.

High Throughput Efficiency

DOWLEX™ 4056G sealant resin, available also as additivated version DOWLEX™ 4056G.01G, offers an exceptional combination of high brilliance and processability. This sealant is very easy to process, delivering higher output than many alternative resins at comparable extruder pressure, thereby offering very high production efficiency in complex multi-layer film extruders and advantages in pressure-limited equipment.

For the final packer, it can offer a broader packaging window thanks to low seal initiation temperatures and excellent hot tack.

Typical Applications

Very versatile, DOWLEX™ 4056G is suitable for a broad range of applications including frozen and dry food, hygiene packs and household films.

Key Benefits of DOWLEX™ 4056G Sealant Resin

- **Higher throughput efficiency** in film extrusion
- **Broad heat seal window**
- **Remarkable optical properties** (high gloss and low haze), both pure and in blends with LDPE
- High packaging **hermeticity** over a broad packing speed range
- **Low seal and hot tack** initiation temperatures
- **Excellent balance** of mechanical properties

Typical Structures

High Clarity Lid Stock: 50 µm (A/B – 30/70) laminated to PET

SEALANT: DOWLEX™ 4056G

STRUCTURE: Barrier Block

ADCOTE™ or MOR-FREE™ Adhesive

Reverse printed oPET

Can provide **remarkable sealing & clarity balance**

SEALANT: DOWLEX™ 4056.01 G

CORE-LAMINATION LAYER: DOWLEX™ and ELITE™ for stiffness/toughness balance

ADCOTE™ or MOR-FREE™ Adhesive

Reverse printed oPET

Hermeticity & abuse resistance

Technical Zone

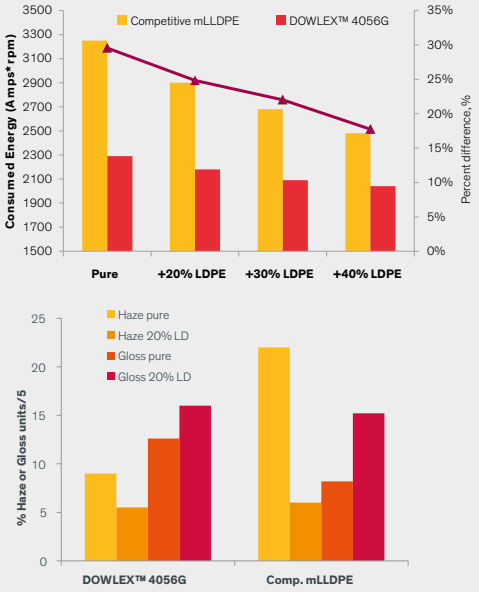
DOWLEX™ 4056G, which can be used alone or in blends with LDPE, has a 1.3 g/10 minutes Melt Flow Index (MFI: 190°C/2.16 kg) and a density of 0.917 g/cm³. The very good balance of properties helps deliver enhanced production efficiency, improved optical performance for package shelf appeal and a broader sealing window for better packaging operations.

Enhanced Production Efficiency

The exceptional polymer design of DOWLEX™ 4056G provides a resin flow behavior which helps deliver processing advantages and can contribute to overall cost reductions. The resin can run at lower pressure at comparable output, an advantage particularly beneficial to pressure-limited extrusion lines.

Good Balance of Optical and Mechanical Properties

Resins used for lamination films are often designed with good mechanical properties but often require the addition of LDPE to obtain the necessary optics performance. DOWLEX™ 4056G exhibits excellent optical performance also when used pure, which gives an enhanced freedom in film design to converters and brand owners alike.



Contact a Dow representative today to learn more.

For more information please visit http://www.dow.com/packaging

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