



APPEEL™ 35D230

Peelable Resin

General Information

Product Description APPEEL™ 35D230 is a modified polyolefin resin designed to function as a peelable sealing layer. It is most often suggested to provide interfacial peel seals film to film, and occasionally for peel seal from PP and PE. It is available in pellet form for use in conventional extrusion or coextrusion equipment designed to process polyethylene resins.

Status

Material Status Commercial: Active

Typical Characteristics

Characteristics / Benefits Contains amide slip agent
Contains antiblock agent

Applications Interfacial Peel Seal for pouches, Peelable Lidding film to other polyolefin substrates,

Typical Properties

| Physical | Nominal Values | Test Method(s) | |
|-----------------------------------|-------------------------|----------------|----------|
| *Density () | 0.899 g/cm ³ | ASTM D792 | ISO 1183 |
| *Melt Flow Index (190°C/2.16kg) | 3.25 g/10 min | ASTM D1238 | ISO 1133 |
| Thermal | Nominal Values | Test Method(s) | |
| *Melting Point (DSC) | 112 °C (233.6 °F) | Dow Method | |

Heat Seal Evaluation The performance of any sealant resin should be evaluated within the context of the application. The sealant is designed to bond to particular substrate(s). Many variables can affect seal strength, including the physical properties of the substrate being sealed to, thickness, flange or surface design, heat seal temperature, dwell time and pressure. The condition and type of the sealing equipment used, such as roller sealers versus platen seal mechanisms can make a significant difference.

In most cases sealant peel strength is used as a measure of performance. Although this is a convenient test, peel strength is affected not only by substrate adhesion but also by peel angle, separation rate, ambient temperature, tensile and modulus properties of the materials, and often by the time elapsed since the formation of the bond.

If sealant peel strength is used as a measure of sealant performance, it is imperative that peel strength be evaluated not only at the time of initial heat sealing the lid to the substrate, but throughout the life of the product and under all the conditions to which the sealant will be exposed. Only then does peel strength provide a reliable indication of adhesive performance in the specific application.

Processing Information

*Maximum Processing Temperature 260 °C (500 °F)

General Processing Information If the process is stopped for short periods of time, the screw for the APPEEL™ extruder should be kept turning at a low rpm to keep material flowing.

After processing APPEEL™, purge the material out using a polyethylene resin, preferably with a lower melt flow rate than the APPEEL™ resin in use. The "Disco Purge Method" is suggested as the preferred purging method, as this method usually results in a more effective purging process. Information on the Disco Purge Method can be obtained via your Dow Sales Representative.

Never shut down the extrusion system with APPEEL™ in the extruder and die.



Properly purge out the APPEEL™ with a polyethylene, and shut down the line with polyethylene or polypropylene in the system.

FDA Status Information

APPEEL™ 35D230 Peelable Resin, when used unmodified and processed in accordance with Good Manufacturing Practices (GMP) for food contact applications, this product will comply with the U.S. Food and Drug Administration's food additive regulation, paragraph 21 CFR 177.1520(c) and/or as a food contact substance under a Food Contact Notification (FCN). This product may be used to produce articles or components of articles used in contact with all food types under Conditions of Use A through H, as described in Table 2 of 21 CFR § 176.170(c). The preceding statement refers to regulatory requirements only, not to the product's physical utility. It is the responsibility of the article producer or food packager to determine that the article is suitable for its intended use.

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