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Advancing Possible

Plexar Tie-Layer Resins

Advancing high-tech resins for adhesion



As the first company to develop tie-layer adhesives in the North America market more than 35 years ago, LyondellBasell's *Plexar* resins are one of the leading tie-layer adhesives produced in the world and provide excellent adhesion to a wide range of materials. Our innovative *Plexar* resins bond dissimilar polymers, primarily in multi-layer, coextruded structures. *Plexar* tie-layer adhesives are marketed globally by MSI Technology, LLC.

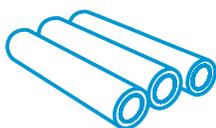
Advancing Your Applications

LyondellBasell's Cincinnati Technology Center is staffed with professionals skilled in multi-layer and tie-layer development. The center houses the most advanced coextrusion, analytical and physical testing equipment, as well as polymer development technology in North America. In addition, our global distributor MSI Technology, LLC conducts research and development on tie-layer applications at their facility in Arlington Heights, IL, U.S.A.

Some Typical Applications



Blow molding



Pipe



Film



Food packaging



Wire and cable



Plexar Tie-Layer Resins

| Product | MI (g/10min.) | Density (g/cm ³) | Description | Typical Application | Benefits |
|--|---------------|------------------------------|---|--|---|
| Plexar 1000 Series EVA and LDPE | | | | | |
| PX1007 | 3.1 | 0.931 | Adhesion to polyamide and EVOH | Used in coextrusion film and other flexible packaging applications | <ul style="list-style-type: none"> Excellent balance of adhesion and clarity Bond to wide variety of substrates |
| PX1164 | 3.8 | 0.931 | High adhesion to polyamide, EVOH, PET, PS | | |
| Plexar 2000 Series HDPE | | | | | |
| PX2246 | 0.5 | 0.951 | Adhesion to polyamide, better MVTR | High top-load strength in blow molded coex bottles including liquid food products | <ul style="list-style-type: none"> Based on advanced catalyst technology Excellent adhesion to PE, PA and EVOH Excellent impact strength and top load strength Outstanding thermal stability and processability |
| PX2250 | 6.0 | 0.943 | Adhesion to metal surfaces | Metal bonding for nail tapes, signage, architectural panels and truck panels | |
| PX2600 | 6.0 | 0.927 | Adhesion to metal surfaces | | |
| PX2413 | 5.5 | 0.920 | Adhesion to metal surfaces | | |
| Plexar 3000 Series LLDPE | | | | | |
| PX3184 | 2.1 | 0.920 | Higher adhesion to EVOH with low MI | Used in coextrusion for flexible barrier packaging applications, rigid packaging applications (blow molding, sheet and industrial products), and multi-layer pipe applications | <ul style="list-style-type: none"> Excellent toughness and outstanding adhesion performance Excellent processability and product consistency Superior film strength and dimensional stability |
| PX3940 | 1.4 | 0.910 | High adhesion to PET polyester and EVOH | | |
| PX3216 | 2.2 | 0.910 | High adhesion in inner-layer PEX pipe | | |
| PX3227 | 1.7 | 0.913 | Higher adhesion to EVOH | | |
| PX3838 | 1.8 | 0.910 | High adhesion to EVOH and PP for hot-fill and coffee pods | | |
| PX3236 | 2.0 | 0.922 | High adhesion to polyamide and EVOH | | |
| PX3747 | 2.0 | 0.918 | High-performance tie-layer resin | | |
| PX3610 | 2.1 | 0.918 | Adhesion to polyamide, high clarity film | | |
| PX3060 | 2.2 | 0.924 | High adhesion to EVOH | | |
| PX3243 | 4.5 | 0.927 | High adhesion to polyamide and EVOH in cast films | | |
| Plexar 5000 Series Select Performance | | | | | |
| PX5400 | 3.0 | 0.933 | EVOH, PS, HIPS | Used in a wide range of extrusion applications including coextrusion coatings, laminations, sheet and thermoforming and multi-layer composite pipe (MLCP) applications | <ul style="list-style-type: none"> High adhesion performance in demanding end-use applications Excellent processability allowing for increased line speeds Improved drawdown and reduced neck-in properties Excellent adhesion to PE, PA and EVOH |
| PX5125 | 6.0 | 0.924 | High-performance extrusion coating resin | | |
| PX5335 | 5.7 | 0.921 | Outer layer PEX pipe | | |
| PX9125 | 6.1 | 0.922 | High-performance extrusion coating resin | | |
| Plexar 6000 Series Polypropylene | | | | | |
| PX6002 | 2.7 | 0.892 | Higher adhesion to EVOH | Used in rigid packaging applications, such as blow molded bottles for hot-fill and sheet, and thermoformed container applications | <ul style="list-style-type: none"> Based on patented technology Outstanding adhesion performance Excellent choice for PP-based coextruded structures requiring good heat stability in retort applications. |
| PX6006 | 4.8 | 0.892 | Highest adhesion to EVOH in films | | |
| PX6005 | 5.4 | 0.892 | High stiffness in EVOH / PA coex bottles | | |

ABOUT US

LyondellBasell (NYSE: LYB) is one of the largest plastics, chemicals and refining companies in the world. Driven by its 13,400 employees around the globe, LyondellBasell produces materials and products that are key to advancing solutions to modern challenges like enhancing food safety through lightweight and flexible packaging, protecting the purity of water supplies through stronger and more versatile pipes, and improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road. LyondellBasell sells products into approximately 100 countries and is the world's largest licensor of polyolefin technologies. In 2018, LyondellBasell was named to Fortune Magazine's list of the "World's Most Admired Companies."

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