



PLA-Premium grades aimed at different industrial applications

Discover which one is suitable for your technology

| Technology                        | PLA-Premium |       |         |       |         |         |       |
|-----------------------------------|-------------|-------|---------|-------|---------|---------|-------|
|                                   | Active      | BioXe | TecnoBi | Natic | GoFibre | PriXbio | Newex |
| Injection Blow Moulding           | ●           |       |         |       |         |         |       |
| Mould Injection                   |             | ●     |         |       |         |         |       |
| Sheet Extrusion for Thermoforming |             |       | ●       |       |         |         |       |
| 3D Filament Extrusion             |             |       |         |       |         | ●       |       |
| Cast Film Extrusion               |             |       | ●       |       |         |         |       |
| Blown Film Extrusion              |             |       | ●       |       |         |         |       |
| Extrusion Blow Moulding           |             |       |         | ●     |         |         |       |
| Filament Extrusion                |             |       |         |       | ●       |         |       |
| Non-Woven Extrusion               |             |       |         |       |         |         | ●     |

SUITABLE FOR YOUR TECHNOLOGY



Injection Blow Moulding



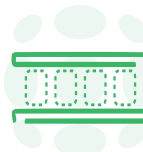
Injection Moulding



Sheet Extrusion for Thermoforming



Cast Extrusion and Blown Film Extrusion



Extrusion Blow Moulding

[www.adbioplastics.com](http://www.adbioplastics.com)

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| PLA-Premium grades | INJECTION BLOW MOULDING  |
|--------------------|--|
| Active 11          | For few injection cavities (up to 4) and <b>low costs</b>  |
| Active 12          | For few cavities (up to 4) and <b>medium quality</b> in finishes and engravings                                |
| Active 13          | For few cavities (up to 4) and <b>high quality</b> in finishes and engravings                                  |
| Active 14          | For few cavities (up to 4), <b>medium quality</b> in finishing and engraving, medium flexibility and low cost  |
| Active 15          | For few cavities (up to 4), <b>high quality</b> in finishing and engraving, high flexibility and medium cost   |
| Active 16          | For few cavities (up to 4), <b>high quality</b> in finishing and engraving and high flexibility                |
| Active 17          | For few cavities, <b>high quality</b> in finishing and engraving, high flexibility and high barrier properties |
| Active 21          | For high number of injection cavities and <b>low costs</b>   |
| Active 22          | For high number of injection cavities and <b>medium quality finishes and engravings</b>                        |
| Active 23          | For high number of injection cavities and <b>high quality finishes and engravings</b>                          |

| PLA-Premium grades | INJECTION MOULDING  |
|--------------------|---|
| BioXe 11           | For injection applications where low fluidity materials are replaced and <b>low costs</b>                                 |
| BioXe 12           | For injection applications where low fluidity materials are replaced and <b>medium quality in finishes and engravings</b> |
| BioXe 13           | For injection applications where low fluidity materials are replaced and <b>high quality in finishes and engravings</b>   |
| BioXe 14           | For injection applications where low fluidity materials are replaced, medium flexibility and <b>low costs</b>             |
| BioXe 15           | For injection applications where low-medium fluidity materials are replaced, high flexibility and <b>medium cost</b>      |
| BioXe 16           | For injection applications where medium fluidity materials are replaced and high flexibility                              |
| BioXe 21           | For injection applications where medium fluidity is needed and <b>low costs</b>   |
| BioXe 22           | For injection applications where medium fluidity is needed and <b>medium quality finishes and engravings</b>              |
| BioXe 23           | For injection applications where medium fluidity is needed and <b>high quality finishes and engravings</b>                |
| BioXe 24 & 25      | For injection applications where medium fluidity is needed, <b>low costs</b> and not very demanding properties            |
| BioXe 26           | For injection applications where high fluidities are required and <b>low costs</b>  |
| BioXe 27           | For injection applications where high fluidities are required and <b>medium quality finishes and engravings</b>           |
| BioXe 28           | For injection applications where high fluidities are required and <b>high quality finishes and engravings</b>             |
| BioXe 30 & 31      | For injection applications where very high flexibility is required (similar to polyolefins)                               |

| PLA-Premium grades | SHEET EXTRUSION FOR THERMOFORMING  |
|--------------------|--|
| TecnoBi 31         | For sheet extrusion, high transparency and <b>low costs</b>                              |
| TecnoBi 32         | For sheet extrusion, high transparency and <b>medium quality and costs</b>               |
| TecnoBi 33         | For sheet extrusion, high transparency and <b>quality</b>                                |
| TecnoBi 34         | For sheet extrusion, <b>medium flexibility and low costs</b>                             |
| TecnoBi 35         | For sheet extrusion, <b>medium flexibility and sealability</b>                           |
| TecnoBi 36         | For sheet extrusion and <b>high flexibility and medium sealability</b>                   |
| TecnoBi 38         | For sheet extrusion, <b>high flexibility and high barrier properties</b> , mainly oxygen |

| PLA-Premium grades | 3D FILAMENT EXTRUSION  |
|--------------------|--|
| PriXbio 11         | For 3D filament extrusion and <b>low costs</b>                   |
| PriXbio 12         | For 3D filament extrusion and <b>medium quality</b>              |
| PriXbio 13         | For 3D filament extrusion and <b>high quality</b>                |
| PriXbio 14         | For 3D filament extrusion, <b>flexibility and low costs</b>      |
| PriXbio 15         | For 3D filament extrusion and <b>medium flexibility</b>          |
| PriXbio 16         | For 3D filament extrusion, <b>medium flexibility and quality</b> |

| PLA-Premium grades | CAST FILM EXTRUSION   |
|--------------------|---|
| TecnoBi 11         | For film extrusion, high transparency and <b>low costs</b>                              |
| TecnoBi 12         | For film extrusion, high transparency and <b>medium quality and costs</b>               |
| TecnoBi 13         | For film extrusion, <b>high transparency and quality</b>                                |
| TecnoBi 14         | For film extrusion, <b>medium flexibility and low costs</b>                             |
| TecnoBi 15         | For film extrusion, <b>medium flexibility and sealability</b>                           |
| TecnoBi 16         | For film extrusion, <b>high flexibility and medium sealability</b>                      |
| TecnoBi 18         | For film extrusion, <b>high flexibility and high barrier properties</b> , mainly oxygen |

| PLA-Premium grades | BLOWN FILM EXTRUSION  |
|--------------------|---|
| TecnoBi 21         | For film extrusion, high transparency and <b>low costs</b>                |
| TecnoBi 22         | For film extrusion, high transparency and <b>medium quality and costs</b> |
| TecnoBi 23         | For film extrusion, <b>high transparency and quality</b>                  |
| TecnoBi 24         | For film extrusion, <b>medium flexibility and low costs</b>               |
| TecnoBi 25         | For film extrusion, <b>medium flexibility and sealability</b>             |
| TecnoBi 26         | For film extrusion, <b>high flexibility and medium sealability</b>        |

| PLA-Premium grades | EXTRUSION BLOW MOULDING   |
|--------------------|---|
| Natic 11           | For extrusion blow moulding, acceptable flexibility, <b>high transparency</b> and procesable in the same industrial equipment |

| PLA-Premium grades | NON-WOVEN EXTRUSION  |
|--------------------|--|
| Newex 11           | For non-woven extrusion technologies with <b>low melt flow index</b> material is required    |
| Newex 12           | For non-woven extrusion technologies with <b>medium melt flow index</b> material is required |
| Newex 13           | For non-woven extrusion technologies with <b>high melt flow index</b> material is required   |

| PLA-Premium grades | FILAMENT EXTRUSION*  |
|--------------------|--|
| GoFibre 12*        | For filament extrusion, medium tenacity increments and <b>medium costs</b>     |
| GoFibre 13*        | For filament extrusion and higher tenacity increments                          |
| GoFibre 15*        | For filament extrusion, medium tenacity increments and <b>high flexibility</b> |
| GoFibre 16*        | For filament extrusion, higher tenacity increments and <b>high flexibility</b> |

\*All grades are in the same family, but we define and select the grade specifically for each application considering if the technology is monofilament or multifilament extrusion.