



AGIPLAST
COMPOUNDING FOR TOMORROW

TECHNICAL DATASHEET

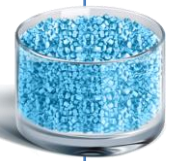
Agimid® 243 B120-S

Product information

Agimid®

The Agimid range holds 3 long-chain polymers including 2 bio-based materials which have a broad range of applications in key markets such as automotive & industrial vehicles, sports & leisure, electrical & electronics and industrial.

- Easy processability
- Very good mechanical properties
 - High abrasion resistance
 - Stable modulus with moist environment
- Remarkable physical resistance
 - Lightest engineering polymers
 - Low water absorption
- Very good chemical resistance
- High aging resistance
- Wide range of temperature use



Agimid 243 B120-S is an impact modified, plasticized, heat and light stabilized product for extrusion. The product could be used as well in PA12 multilayer structures.

MAIN MARKETS



AUTOMOTIVE



INDUSTRIAL



Agimid[®] 243 B120-S

Product properties

| PROPERTY | TEST METHOD | VALUE |
|--|------------------------------------|---|
| PHYSICAL PROPERTIES | | |
| MELTING POINT | ISO 11357-1/-3 | 220 °C |
| DENSITY (23 °C) | ISO 1183 | 1,04 g/cm ³ |
| WATER ABSORPTION (23 °C) <ul style="list-style-type: none">with 50% of relative humiditywith 100% of relative humidity | Similar to ISO 62 | 1,15% 3,00% |
| THERMAL PROPERTIES | | |
| HEAT DEFLECTION TEMPERATURE (HDT) <ul style="list-style-type: none">1,85 MPa0,45 MPa | ISO 75 Method A ISO 75 Method B | 40 °C 80 °C |
| FLAME RESISTANCE Thickness test piece <ul style="list-style-type: none">3,2 mm1,6 mm | UL 94 | HB HB |
| ELECTRICAL PROPERTIES | | |
| VOLUME RESISTIVITY | ASTDM D 257 | 10 ¹¹ Ω.cm |
| SURFACE RESISTIVITY | ASTDM D 257 | 10 ¹¹ Ω |
| MECHANICAL PROPERTIES | | |
| FLEXURAL MODULUS | ISO 178 | 460 MPa |
| TENSILE MODULUS <ul style="list-style-type: none">Break strengthBreak elongation | ISO 527 | 500 MPa 37 MPa >100 % |
| CHARPY IMPACT STRENGTH <ul style="list-style-type: none">Unnotched at +23 °CUnnotched at -30 °CNotched at +23°CNotched at -30°C | ISO 179 | No break No break 90 P kJ/m ² 8 kJ/m ² |

The data given are based on our present knowledge and experience. They are published without obligation on our part and any liability will be assumed.



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Processing information

| MACHINE | | | |
|--|--|--|---|
| GENERAL | All extruders suitable for polyamides can run the 243 B120-S | | |
| SCREW TYPES | Screws with three zones (feeding, compression and metering zones) are recommended Length: 25 D - 30 D | | |
| MATERIAL | | | |
| STORAGE | 243 B120-S has to be stored in dry, indoor and safe facilities. It is highly recommended to run granules having reached the workshop temperature to prevent from moisture condensing on cold granules. Expiry date: Two years from delivery date | | |
| DRYING | 243 B120-S is dried and packed with a moisture content of less than 0.10 %. If the packing has been damaged or left open for a long time (>2 hours), then the material has to be dried. Polyamides are sensitive to oxidation at temperatures > 80°C in the oxygen atmosphere. | | |
| DRYING SETTINGS | <table border="1"><tr><td>AIR DRYER Temperature: max. 80°C Time: 4 - 8 hours</td><td>VACUUM DRYER Temperature: max. 80°C Time: 2 - 4 hours</td></tr></table> | AIR DRYER Temperature: max. 80°C Time: 4 - 8 hours | VACUUM DRYER Temperature: max. 80°C Time: 2 - 4 hours |
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| LUBRICATION | 243 B120-S includes internal lubricants. However, the use of Zinc Stearate or Calcium Stearate can be helpful in case of process instability | | |
| PROCESS (recommended basic settings) | | | |
| BASIC MACHINE SETTINGS | Hopper zone 60 - 90°C Feeding zone 220 - 240°C Compression zone 220 - 250°C Metering zone 220 - 250°C Head 220 - 240°C Melt 205 - 245°C | | |
| COOLING BATH | 15 - 30°C | | |

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