

PA 12 BLACK - LOT C240203

Professional one-page technical profile based on laboratory characterization and DSC assessment.

Product positioning

PA 12 Black Lot C240203 is a black polyamide 12 material with smooth filament appearance, low mineral residue and a thermal melting profile aligned with standard PA12 grades. The material is positioned for extrusion and technical conversion routes where PA12 dimensional stability, low moisture uptake, chemical resistance and processability are required.

Key measured properties

Property	Measured value	Method / condition
Polymer family	Polyamide 12 (PA12)	Laboratory identification / DSC profile
Colour	Black	Visual designation
MFI / MFR	35.25 g/10 min	250 °C / 5 kg
Initial moisture	0.70 %	Laboratory measured value
Residual ash	0.08 %	Laboratory measured value
DSC melting peak	177.49 °C	DSC, peak temperature
DSC melting enthalpy	58.68 J/g	DSC, normalized integral
Appearance after filament check	Smooth filament surface	Laboratory observation

Professional comparability note - VESTAMID® L1670

Based on the available measured parameters, PA 12 Black Lot C240203 can be professionally described as comparable in material family and processing positioning to VESTAMID® L1670, which is a low-viscosity PA12 grade developed for extrusion applications such as thin wire insulation and cable jacketing.

Comparable parameter	PA 12 Black Lot C240203	VESTAMID® L1670 reference	Professional interpretation
Polymer base	PA12	PA12	Same polymer family.
Thermal melting profile	DSC peak 177.49 °C	Melting temperature approx. 178 °C	Very close PA12 melting behaviour.
Moisture / humidity behaviour	Initial moisture 0.70 %	Humidity absorption 0.7 % typical	Aligned with the low-moisture PA12 profile.
Flow / viscosity positioning	MFI 35.25 g/10 min at 250 °C / 5 kg	MVR 60 cm ³ /10 min at 230 °C / 2.16 kg	Both indicate high-flow, low-viscosity PA12 positioning; values are not directly interchangeable because test conditions differ.
Application orientation	Extrusion-oriented technical PA12	Extrusion, wire insulation and cable jacketing	Comparable processing field for technical extrusion use.

Typical application fields

Recommended positioning: black PA12 for extrusion, technical profiles, tubing, cable-related applications, flexible technical components and conversion processes requiring PA12 thermal stability, smooth surface appearance and low ash content.

Reference note: values for Lot C240203 are taken from the supplied laboratory report. VESTAMID® L1670 values are typical published reference data for commercial comparison. This document is intended as a professional technical profile and comparative positioning sheet; final suitability for a specific application should be confirmed by processing trials and customer qualification.