



AGIPLAST
COMPOUNDING FOR TOMORROW

TECHNICAL DATASHEET

Agimid® 210 B000

Product information

Agimid® POLYAMIDE 12

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



TRADEMARK	POLYMER		FLUIDITY		ADDITIVES		COLOUR		FLEXIBILITY		ADDITIVES	
Agimid	2	PA12	1	High fluidity	0	Any	B	Black	000	Rigid	/	Any

Agimid 210 B000 is a PA 12 rigid with high fluidity dedicated to the injection molding. The main application is cable ties for the electric & electronics market.

MAIN MARKETS



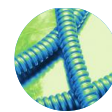
AUTOMOTIVE



INDUSTRIAL



SPORTS & LEISURE



ELECTRICAL & ELECTRONICS



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Product properties

PROPERTY	TEST METHOD	VALUE
PHYSICAL PROPERTIES		
MELTING POINT	ISO 11357-1/-3	178 °C
DENSITY (23 °C)	ISO 1183	1,01 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	0,70% 1,40%
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	50 °C 120 °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 ¹⁴ Ω.cm
SURFACE RESISTIVITY	ASTDM D 257	10 ¹⁴ Ω
DIELECTRIC STRENGTH (dry state)	ASTDM D 149	28 kV/mm
MECHANICAL PROPERTIES		
TENSILE MODULUS <ul style="list-style-type: none">Break strengthBreak elongation	ISO 527	1350 MPa 46 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 5 kJ/m ² 6 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 injection molding machines suitable for polyamides can run the 210 B000.		
SCREW TYPES	Screws with three zones (feeding, compression and metering zones) are recommended. Length: 18 D - 22 D		
MATERIAL			
STORAGE	210 B000 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.		
DRYING	210 B000 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. To avoid yellowing of the granules (for natural color grades only), it is recommended to respect the following settings.		
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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PROCESS (recommended basic settings)			
BASIC MACHINE SETTINGS	Feeding zone 210 - 240°C Compression zone 220 - 250°C Metering zone 220 - 250°C Nozzle 220 - 250°C Melt 220 - 250°C		
MOULD TEMPERATURE	10 - 40°C		

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