

Agimid® 210 B070-S

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	070	Semi - Flexible	-S	Processing Aid

Agimid 210 B070-S is a PA 12 semi-flexible with high fluidity and processing aid, dedicated to the injection molding.

MAIN MARKETS



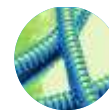
AUTOMOTIVE



INDUSTRIAL



SPORTS & LEISURE



ELECTRICAL & ELECTRONICS

Agimid® 210 B070-S

Product properties

PROPERTY	TEST METHOD	VALUE
PHYSICAL PROPERTIES		
MELTING POINT	ISO 11357-1/-3	175 °C
DENSITY (23 °C)	ISO 1183	1,02 g/cm ³
WATER ABSORPTION (23 °C)	Similar to ISO 62	0,70%
<ul style="list-style-type: none"> with 50% of relative humidity with 100% of relative humidity 		1,40%
THERMAL PROPERTIES		
HEAT DEFLECTION TEMPERATURE (HDT)	ISO 75 Method A ISO 75 Method B	45 °C
<ul style="list-style-type: none"> 1,85 MPa 0,45 MPa 		100 °C
FLAME RESISTANCE	UL 94	HB HB
Thickness test piece		
<ul style="list-style-type: none"> 3,2 mm 1,6 mm 		
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	24 kV/mm
MECHANICAL PROPERTIES		
TENSILE MODULUS	ISO 527	650 MPa
<ul style="list-style-type: none"> Break strength Break elongation 		40 MPa >100%
CHARPY IMPACT STRENGTH		ISO 179
<ul style="list-style-type: none"> Unnotched at +23 °C Unnotched at -30 °C Notched at +23 °C Notched at -30 °C 	50 kJ/m ² 8 kJ/m ² 5 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 for polyamides can run the 210 B070-S.						
SCREW TYPES	Screws with three zones (feeding, compression and metering zones) are recommended. Length: 18 D - 22 D						
MATERIAL							
STORAGE	210 B070-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.						
DRYING	210 B070-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. 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</td> <td>VACUUM DRYER</td> </tr> <tr> <td>Temperature: max. 80°C</td> <td>Temperature: max. 80°C</td> </tr> <tr> <td>Time: 4 – 8 hours</td> <td>Time: 2 - 4 hours</td> </tr> </table>	AIR DRYER	VACUUM DRYER	Temperature: max. 80°C	Temperature: max. 80°C	Time: 4 – 8 hours	Time: 2 - 4 hours
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Temperature: max. 80°C	Temperature: max. 80°C						
Time: 4 – 8 hours	Time: 2 - 4 hours						
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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