

TECHNICAL DATASHEET

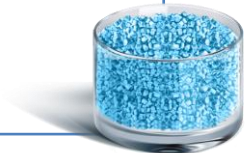
Agimid® 240 N000

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
- Termite resistance
- High aging resistance
- Wide range of temperature use



TRADEMARK	POLYMER		FLUIDITY		ADDITIVES		COLOUR	FLEXIBILITY	ADDITIVES			
Agimid	2	PA12	4	High viscosity	0	Any	N	Natural	000	Rigid	/	Any

**Agimid 240 N000** is a heat and light stabilized product for extrusion. The main application is colored pneumatic tubes for industrial and automotive markets.

MAIN MARKETS



INDUSTRIAL



SPORTS & LEISURE

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## Agimid<sup>®</sup> 240 N000

### Product properties

PROPERTY	TEST METHOD	VALUE
<b>PHYSICAL PROPERTIES</b>		
MELTING POINT	ISO 11357-1/-3	178 °C
DENSITY (23 °C)	ISO 1183	1,01 g/cm <sup>3</sup>
WATER ABSORPTION (23 °C)	Similar to ISO 62	0,70%
<ul style="list-style-type: none"> <li>with 50% of relative humidity</li> <li>with 100% of relative humidity</li> </ul>		1,50%
<b>THERMAL PROPERTIES</b>		
HEAT DEFLECTION TEMPERATURE (HDT)	ISO 75 Method A	50 °C
<ul style="list-style-type: none"> <li>1,85 MPa</li> <li>0,45 MPa</li> </ul>	ISO 75 Method B	120 °C
FLAME RESISTANCE	UL 94	HB
Thickness test piece		
<ul style="list-style-type: none"> <li>3,2 mm</li> <li>1,6 mm</li> </ul>		
<b>ELECTRICAL PROPERTIES</b>		
VOLUME RESISTIVITY	ASTM D 257	10 <sup>14</sup> Ω.cm
SURFACE RESISTIVITY	ASTM D 257	10 <sup>14</sup> Ω
DIELECTRIC STRENGTH (dry state)	ASTM D 149	28 kV/mm
<b>MECHANICAL PROPERTIES</b>		
TENSILE MODULUS	ISO 527	1300 MPa
<ul style="list-style-type: none"> <li>Break strength</li> <li>Break elongation</li> </ul>		40 MPa
		>100 %
CHARPY IMPACT STRENGTH	ISO 179	No break
<ul style="list-style-type: none"> <li>Unnotched at +23 °C</li> <li>Unnotched at -30 °C</li> </ul>		No break
<ul style="list-style-type: none"> <li>Notched at +23 °C</li> </ul>		6 kJ/m <sup>2</sup>
<ul style="list-style-type: none"> <li>Notched at -30 °C</li> </ul>		6 kJ/m <sup>2</sup>

*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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## Agimid<sup>®</sup> 240 N000

### Processing information

MACHINE			
GENERAL	All extruders suitable for polyamides can run the 240 N000.		
SCREW TYPES	Screws with three zones (feeding, compression and metering zones) are recommended Length: 18 D - 22 D		
MATERIAL			
STORAGE	240 N000 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	240 N000 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	Hopper zone 60 - 90°C Feeding zone 200 - 225°C Compression zone 210 - 240°C Metering zone 210 - 240°C Head 200 - 230°C Melt 205 - 235°C		
COOLING BATH	15 - 30°C		

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