

TECHNICAL DATASHEET

Agimid[®] 240 B120

Product information



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	PC	DLYMER		FLUIDITY		ADDITIVES	CC	LOUR	FLE	(IBILITY	ΑI	DDITIVES
Agimid	2	PA12	4	High viscosity	0	Any	В	Black	120	Highly flexible	/	Any

Agimid 240 B120 is a plasticized, heat and light stabilized and impact modified product for extrusion. The main application is pneumatic tubes for industrial and automotive markets.

MAIN MARKETS







AUTOMOTIVE

INDUSTRIAL

ELECTRICAL & ELECTRONICS

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Product properties

PROPERTY	TEST METHOD	VALUE					
	PHYSICAL PROPERTIES						
MELTING POINT	ISO 11357-1/-3	173 °C					
DENSITY (23 °C)	ISO 1183	1,03 g/cm3					
WATER ABSORPTION (23 °C)							
 with 50% of relative humidity 	Similar to ISO 62	0,70%					
 with 100% of relative humidity 		1,40%					
THERMAL PROPERTIES							
HEAT DEFLECTION TEMPERATURE (HDT)							
• 1,85 MPa	ISO 75 Method A	45 °C					
• 0,45 MPa	ISO 75 Method B	95 °C					
FLAME RESISTANCE							
Thickness test piece	UL 94						
• 3,2 mm	01 94	нв					
• 1,6 mm		НВ					
ELECTRICAL PROPERTIES							
VOLUME RESISTIVITY	ASTM D 257	10 ¹⁴ Ω.cm					
SURFACE RESISTIVITY	ASTM D 257	$10^{14}\Omega$					
DIELECTRIC STRENGTH (dry state)	ASTM D 149	24 kV/mm					
MECHANICAL PROPERTIES							
TENSILE MODULUS		420 MPa					
Break strength	ISO 527	39 MPa					
Break elongation		>100 %					
CHARPY IMPACT STRENGTH							
 Unnotched at +23 °C 	ISO 179	No break					
 Unnotched at -30 °C 		No break					

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 240 B120						
SCREW TYPES	Screws with three zones (feeding, compression and metering zones) are						
	recommended						
	Length: 18 D - 22 D						
MATERIAL							
STORAGE	240 B120 has to be stored in dry, indoor and safe facilities.						
	It is highly recommended to run granules having reached the workshop						
	ondensing on cold granules						
DRYING	240 B120 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 oxy						
	atmosphere.						
DRYING SETTINGS	AIR DRYER	VACUUM DRYER					
	Temperature: max. 80°C	Temperature: max. 80°C					
	Time: 4 - 8 hours	Time: 2 - 4 hours					
LUBRICATION	240 B120 includes internal lubricants.						
	However, the use of Zinc Stearate or Calcium Stearate can be helpful in case of						
	process instability	ability					
	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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