

TECHNICAL DATASHEET

Agimid[®] 241 N070

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 ageing resistance
- · Wide range of temperature use



TRADEMARK	POLYMER		FLUIDITY		ADDITIVES			COLOUR	FLEXIBILITY		ADDITIVES	
Agimid	2	PA12	4	High viscosity	1	Any	N	Natural	070	Highly flexible	/	Any

Agimid 241 N070-S is a plasticized and impact modified PA12 extrusion grade.

MAIN MARKETS



AUTOMOTIVE





INDUSTRIAL



ELECTRICAL & ELECTRONICS



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Product properties

PROPERTY	TEST METHOD	VALUE
	PHYSICAL PROPERTIES	
MELTING POINT	ISO 11357-1/-3	175 °C
DENSITY (23 °C)	ISO 1183	1,02 g/cm3
WATER ABSORPTION (23 °C)		
 with 50% of relative humidity 	Similar to ISO 62	0,70%
 with 100% of relative humidity 		1,50%
	THERMAL PROPERTIES	
HEAT DEFLECTION TEMPERATURE (HDT)		
• 1,85 MPa	ISO 75 Method A	45 °C
• 0,45 MPa	ISO 75 Method B	85 ℃
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		580 MPa
Break strength	ISO 527	43 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 Agimid 241 N070						
SCREW TYPES	Screws with three zones (feeding, compression and metering zones) are						
	recommended						
	Length: 24 D - 25 D						
	Compression ratio: 2.5 - 3.1						
MATERIAL							
STORAGE	Agimid 241 N070 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	Agimid 241 N070 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	AIR DRYER	VACUUM DRYER					
	Temperature: max. 80°C	Temperature: max. 100°C					
	Time: 4 - 8 hours	Time: 2 - 4 hours					
LUBRICATION	Agimid 241 N070 includes internal lubrica	ants.					
	However, the use of Zinc Stearate or Calcium Stearate can be helpful in case of						
	process instability						
	(Weight rate: 0,05%)						
PROCESS (recommended basic settings)							
BASIC MACHINE SETTINGS	Hopper zone 60 - 90°C						
	Feeding zone200 - 225°C						
	Compression zone 210 - 240°C						
	Metering zone 210 - 240°C						
	Head 200 - 220°C						
	Melt 205 - 235°C						
COOLING BATH	15 - 30°C	_					

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