

TECHNICAL DATA SHEET

RILSAMID® AECHVO

POLYAMIDE 12 PELLET

RILSAMID® AECHVO a polyamide 12 resin. This natural grade is designed for cable coating but is also suitable for tube extrusion.

Designation : ISO 16396 - PA12, KHL, C18-010

TYPE

PA12

MAIN APPLICATIONS

- Compounding

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Sheet Extrusion

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	45	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Hardness, Shore D, 15 s	- / 73		ISO 868
Charpy unnotched impact strength, 23°C (73°F)	- / No Break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break		ISO 179 1eU
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50	%	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 6	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 38	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 1200	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 7	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 6	kJ/m2	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 1200	MPa	ISO 178

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Specific gravity, 23°C (73°F)	1.01	g/cm ³	ISO 1183-1

PACKAGING

- Available packaging:
- 800 kg / 1760 lb rigid containers

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours