

TECHNICAL DATA SHEET

RILSAMID® AESN BLACK P202 CTL

POLYAMIDE 12 PELLET

RILSAMID® AESN BLACK P202 CTL is a polyamide 12 compound. This plasticized and impact-modified electrostatic discharge (ESD) grade is specially designed for conductive multi-layer fuel line applications.

Designation : ISO 16396 - PA12-IP, EG1HLZ, C22-005

DESIGNATION

PA12-IP

MAIN APPLICATIONS

- Auto - Gasoline Lines

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Plasticizer

RHEOLOGICAL PROPERTIES

特性	价值	UNIT	测试标准
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	1.2	cm ³ /10min	ISO 1133

MECHANICAL PROPERTIES

特性	DRY / COND VALUE*	UNIT	测试标准
Tensile modulus, 23°C (73°F), 1 mm/min	620 / 620	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 35	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 26	%	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50	%	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 568	MPa	ISO 178
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
Charpy notched impact strength, 23°C (73°F)	- / 82	kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 4	kJ/m ²	ISO 179 1eA
Hardness, Shore D, 15 s	- / 65		ISO 868

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

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THERMAL PROPERTIES

特性	价值	UNIT	测试标准
Melting temperature, 10°C/min	174	°C	ISO 11357-1/-3

OTHER PROPERTIES

特性	价值	UNIT	测试标准
Specific gravity, 23°C (73°F)	1.14	g/cm ³	ISO 1183-1

包装

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 20 kg / 44 lb bag
- 25 kg / 55 lb bag

保质期

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:

- 典型熔融温度 (最小/推荐/最大) ——注塑成型: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- 典型模具温度——注塑成型: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Electrostatic discharge (ESD)

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