RILSAMID®

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, CDx, EG1HL, C22-005

TYPE

PA12-IP

MAIN APPLICATIONS

- auto - gasoline lines

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Plasticizer

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	1.2	cm^3/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	655 / 605	MPa	ISO 178
Tensile modulus, 23°C (73°F)	700 / 680	MPa	ISO 527-1/-2
Stress at break, 23°C (73°F)	34 / 32	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F)	215 / 200	%	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	No break / No break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No break / No break		ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	73 / 78	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	8.1 / 8.3	kJ/m2	ISO 179 1eA
Charpy unnotched impact strength, -40°C (-40°F)	5.3 / -	kJ/m2	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

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	172	°C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	124	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	56	°C	ISO 75-1/-2

ELECTRICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Surface resistivity, 23°C (73,4°F)	- / 1.5E+5	ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73,4°F)	- / 1500	ohm.m	IEC 62631-3-1

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

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.14	g/cm³	ISO 1183-1

PACKAGING

Available packaging:
- 20 kg / 44 lb bags
- 25 kg / 55 lb bags

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

SPECIAL CHARACTERISTICS

- Electrostatic discharge (ESD)

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