RILSAMID®

TECHNICAL DATA SHEET

RILSAMID® AECN BLACK 03 TL

POLYAMIDE 12 PELLET

RILSAMID® AECN BLACK 03 TL is a polyamide 12. This black colored grade is designed for cable coating.

Designation : ISO 16396 - PA12, KG1HL, C14-010

TYPE

PA12

MAIN APPLICATIONS

- downstream - gas station piping
- performance wire
- cable
- industry - distribution
- auto - metal tube coating
- heavy truck - air brake lines

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt volume flow rate (MVR), 210°C / 1 kg (410°F / 2.2 lb)	8	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 1210	MPa	ISO 178
Tensile modulus, 23°C (73°F)	- / 1250	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F)	- / 39	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F)	- / 8	%	ISO 527-1/-2
Stress at break, 23°C (73°F)	- / 57	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F)	- / > 200	%	ISO 527-1/-2
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)	- / 11	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 7	kJ/m2	ISO 179 1eA
Hardness, shore D, instantaneous	- / 71		ISO 868
Hardness, shore D, 15 s	- / 67		ISO 868

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

RILSAMID® AECN BLACK 03 TL

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	180	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.01	g/cm³	ISO 1183-1

PACKAGING

Available packaging:
- 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.

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on https://www.arkema.com/global/en/products/product-safety/disclaimer/ which is incorporated herein by reference and made a part hereof.
Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790
arkema.com