

RILSAMID® AECV BLACK T8L

ISO 16396 - PA12, KGHL, C16-010

Rilsamid® AECV BLACK T8L resin is a black colored polyamide 12.

This grade is designed for cable coating.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	12 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	1350 / 1100	MPa	ISO 527-1/-2
Yield stress	41 / 37	MPa	ISO 527-1/-2
Yield strain	5 / 10	%	ISO 527-1/-2
Nominal Strain at Break	>50 / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 8	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m ²	ISO 179/1eA
Puncture - Maximum Force, -30°C	- / 5000	N	ISO 6603-2
Puncture Energy, -30°C	- / 70	J	ISO 6603-2
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	138 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	80 / *	E-6/K	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	4 / -	-	IEC 60250
Relative Permittivity, 1MHz	3 / -	-	IEC 60250
Dissipation Factor, 100Hz	431 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	193 / -	E-4	IEC 60250
Volume Resistivity	- / 2E6	Ohm*m	IEC 60093
Surface Resistivity	* / 1E11	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 40	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112

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OTHER PROPERTIES			
Water Absorption	1.6 / *	%	Sim. to ISO 62
Density	1010 / 1010	kg/m ³	ISO 1183

MAIN APPLICATIONS:

- Wire and cable sheathing

PACKAGING:

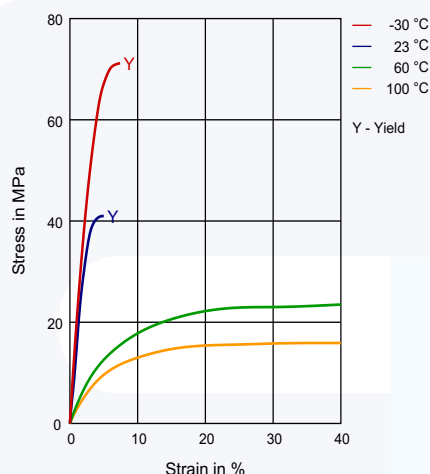
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

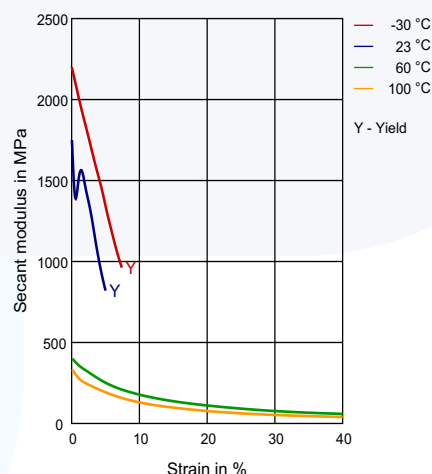
Two years from the date of delivery. for any use above this limit, please refer to our technical services.

DIAGRAMS

STRESS-STRAIN



SECANT MODULUS-STRAIN



Processing conditions:

- Typical melt temperature (Min / recommended / Max): 250°C / 260°C / 270°C
- Drying time and temperature (only necessary for bags opened more than two hours): 4 - 8 hours at 80°C

PROCESSING

Injection Molding, Other Extrusion, Coating

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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