

Product Texts

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 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.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	12 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1350 / 1100	MPa	ISO 527
^[C] Yield stress	41 / 37	MPa	ISO 527
^[C] Yield strain	5 / 10	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Charpy notched impact strength, +23°C	- / 8	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 6	kJ/m ²	ISO 179/1eA
^[C] Puncture - maximum force, -30°C	- / 5000	N	ISO 6603-2
^[C] Puncture energy, -30°C	- / 70	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	138 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	80 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	431 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	193 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	- / 2E6	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E11	Ohm	IEC 62631-3-2
^[C] Electric strength	- / 40	kV/mm	IEC 60243-1
^[C] Comparative tracking index	* / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.6 / *	%	Sim. to ISO 62
^[C] Density	1010 / 1010	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Other Extrusion, Coating

Delivery form

Pellets, Black

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

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

Other text information

Other extrusion

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