

# Rilsamid® AECV Noir T8L

Polyamide 12

Arkema

## Message:

Rilsamid ® AECV Noir T8L is a black coloured polyamide 12. This grade is designed for cable coating but is also suitable for extrusion.

### MAIN APPLICATIONS

Wire sheathing.

| General Information                         |                           |                        |             |
|---------------------------------------------|---------------------------|------------------------|-------------|
| Uses                                        | Cable Jacketing           |                        |             |
|                                             | Wire & Cable Applications |                        |             |
| Appearance                                  | Black                     |                        |             |
| Processing Method                           | Extrusion                 |                        |             |
| Physical                                    | Nominal Value             | Unit                   | Test Method |
| Density                                     | 1.01                      | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (235°C/2.16 kg) | 12.0                      | cm <sup>3</sup> /10min | ISO 11357   |
| Hardness                                    | Nominal Value             | Unit                   | Test Method |
| Shore Hardness (Shore D, 15 sec)            | 72                        |                        | ISO 868     |
| Mechanical                                  | Nominal Value             | Unit                   | Test Method |
| Tensile Stress                              |                           |                        | ISO 527-2   |
| Yield                                       | 43.0                      | MPa                    |             |
| Break                                       | 51.0                      | MPa                    |             |
| Tensile Strain                              |                           |                        | ISO 527-2   |
| Yield                                       | 6.0                       | %                      |             |
| Break                                       | > 200                     | %                      |             |
| Flexural Modulus                            | 1310                      | MPa                    | ISO 178     |
| Impact                                      | Nominal Value             | Unit                   | Test Method |
| Charpy Notched Impact Strength              |                           |                        | ISO 179     |
| -30°C                                       | 6.0                       | kJ/m <sup>2</sup>      |             |
| 23°C                                        | 6.0                       | kJ/m <sup>2</sup>      |             |
| Charpy Unnotched Impact Strength            |                           |                        | ISO 179     |
| -30°C                                       | No Break                  |                        |             |
| 23°C                                        | No Break                  |                        |             |
| Thermal                                     | Nominal Value             | Unit                   | Test Method |
| Melting Temperature                         | 178                       | °C                     | ISO 11357-3 |
| Additional Information                      | Nominal Value             |                        | Test Method |
| ISO Shortname                               | PA12, KHL, 16-010         |                        | ISO 1874    |
| Extrusion                                   | Nominal Value             | Unit                   |             |
| Drying Temperature                          | 80.0                      | °C                     |             |

|                  |            |    |
|------------------|------------|----|
| Drying Time      | 4.0 to 8.0 | hr |
| Melt Temperature | 250 to 270 | °C |

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