

# Hiprolon® 11 ECN Black H8L

Polyamide 1012

Arkema

## Message:

Hiprolon® 11 ECN black H8L is a polyamide produced from a renewable source. This grade is designed for extrusion and recommended for cable sheathing application.

| General Information                         |                            |                        |             |
|---------------------------------------------|----------------------------|------------------------|-------------|
| Features                                    | Renewable Resource Content |                        |             |
| Uses                                        | Wire & Cable Applications  |                        |             |
| Appearance                                  | Black                      |                        |             |
| Processing Method                           | Extrusion                  |                        |             |
| Physical                                    | Nominal Value              | Unit                   | Test Method |
| Density                                     | 1.03                       | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (235°C/2.16 kg) | 8.00                       | cm <sup>3</sup> /10min | ISO 1133    |
| Hardness                                    | Nominal Value              | Unit                   | Test Method |
| Shore Hardness (Shore D, 15 sec)            | 73                         |                        | ISO 868     |
| Mechanical                                  | Nominal Value              | Unit                   | Test Method |
| Tensile Stress                              |                            |                        | ISO 527-2   |
| Yield                                       | 42.0                       | MPa                    |             |
| Break                                       | 51.0                       | MPa                    |             |
| Tensile Strain                              |                            |                        | ISO 527-2   |
| Yield                                       | 20                         | %                      |             |
| Break                                       | > 200                      | %                      |             |
| Flexural Modulus                            | 1120                       | MPa                    | ISO 178     |
| Impact                                      | Nominal Value              | Unit                   | Test Method |
| Charpy Notched Impact Strength              |                            |                        | ISO 179/1eA |
| -30°C                                       | 15                         | kJ/m <sup>2</sup>      |             |
| 23°C                                        | 13                         | kJ/m <sup>2</sup>      |             |
| Charpy Unnotched Impact Strength            |                            |                        | ISO 179/1eU |
| -30°C                                       | No Break                   |                        |             |
| 23°C                                        | No Break                   |                        |             |
| Thermal                                     | Nominal Value              | Unit                   | Test Method |
| Melting Temperature                         | 190                        | °C                     | ISO 11357-3 |
| Additional Information                      | Nominal Value              | Unit                   | Test Method |
| ISO Shortname                               | PA 1012, KHL, 22-010       |                        | ISO 1874    |
| Renewable Carbon Content                    | > 42                       | %                      | ASTM D6866  |
| Extrusion                                   | Nominal Value              | Unit                   |             |
| Drying Temperature                          | 80.0 to 90.0               | °C                     |             |
| Drying Time                                 | 4.0 to 6.0                 | hr                     |             |

Melt Temperature

210 to 260

°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

