

# Rilsan® KMVO TL

Polyamide 11

Arkema

Message:

Rilsan ® KMVO TL is a polyamide 11 produced from a renewable source. This natural grade is designed for extrusion.

MAIN APPLICATIONS

Injected parts.

| General Information |                            |  |  |
|---------------------|----------------------------|--|--|
| Features            | Renewable Resource Content |  |  |
| Appearance          | Natural Color              |  |  |
| Processing Method   | Extrusion                  |  |  |
|                     | Injection Molding          |  |  |

| Physical        | Nominal Value | Unit  | Test Method |
|-----------------|---------------|-------|-------------|
| Density         | 1.03          | g/cm³ | ISO 1183    |
| Hardness        | Nominal Value | Unit  | Test Method |
| Shore Hardness  |               |       | ISO 868     |
| Shore D         | 75            |       |             |
| Shore D, 15 sec | 71            |       |             |

| Mechanical       | Nominal Value | Unit | Test Method |
|------------------|---------------|------|-------------|
| Tensile Stress   |               |      | ISO 527-2   |
| Yield            | 40.0          | MPa  |             |
| Break            | 53.0          | MPa  |             |
| Tensile Strain   |               |      | ISO 527-2   |
| Yield            | 5.0           | %    |             |
| Break            | > 200         | %    |             |
| Flexural Modulus | 1000          | MPa  | ISO 178     |

| Impact                           | Nominal Value | Unit  | Test Method |
|----------------------------------|---------------|-------|-------------|
| Charpy Notched Impact Strength   |               |       | ISO 179     |
| -30°C                            | 14            | kJ/m² |             |
| 23°C                             | 12            | kJ/m² |             |
| Charpy Unnotched Impact Strength |               |       | ISO 179     |
| -30°C                            | No Break      |       |             |
| 23°C                             | No Break      |       |             |

| Thermal             | Nominal Value | Unit | Test Method |
|---------------------|---------------|------|-------------|
| Melting Temperature | 187           | °C   | ISO 11357-3 |

| Additional Information  | Nominal Value     | Unit | Test Method |
|-------------------------|-------------------|------|-------------|
| ISO Shortname           | PA11, MHL, 18-010 |      | ISO 1874    |
| Renewable Carbon Conent | > 96              | %    | ASTM D6866  |

| Injection | Nominal Value | Unit |  |
|-----------|---------------|------|--|
|-----------|---------------|------|--|

|                        |              |    |
|------------------------|--------------|----|
| Drying Temperature     | 80.0         | °C |
| Drying Time            | 4.0 to 8.0   | hr |
| Processing (Melt) Temp | 230 to 280   | °C |
| Mold Temperature       | 20.0 to 60.0 | °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

