

# Akulon® F160-Z

Polyamide 6  
DSM Engineering Plastics

Message:

Akulon® F160-Z is a Polyamide 6 (Nylon 6) material. It is available in Europe.  
Important attributes of Akulon® F160-Z are:  
High Viscosity  
Lubricated

| General Information              |                      |             |                    |             |
|----------------------------------|----------------------|-------------|--------------------|-------------|
| Additive                         | Lubricant            |             |                    |             |
| Features                         | Lubricated           |             |                    |             |
|                                  | Ultra High Viscosity |             |                    |             |
| Physical                         | Dry                  | Conditioned | Unit               | Test Method |
| Density                          | 1.13                 | --          | g/cm <sup>3</sup>  | ISO 1183    |
| Water Absorption                 |                      |             |                    | ISO 62      |
| Saturation, 23°C                 | 9.5                  | --          | %                  |             |
| Equilibrium, 23°C, 50% RH        | 2.5                  | --          | %                  |             |
| Viscosity Number                 | 450                  | --          | cm <sup>3</sup> /g | ISO 307     |
| Mechanical                       | Dry                  | Conditioned | Unit               | Test Method |
| Tensile Modulus                  | 3200                 | --          | MPa                | ISO 527-2   |
| Tensile Stress (Yield)           | 85.0                 | --          | MPa                | ISO 527-2   |
| Tensile Strain (Yield)           | 4.0                  | --          | %                  | ISO 527-2   |
| Nominal Tensile Strain at Break  | > 50                 | --          | %                  | ISO 527-2   |
| Thermal                          | Dry                  | Conditioned | Unit               | Test Method |
| Melting Temperature <sup>1</sup> | 220                  | --          | °C                 | ISO 11357-3 |
| CLTE - Flow                      | 1.0E-4               | --          | cm/cm/°C           | ISO 11359-2 |
| Electrical                       | Dry                  | Conditioned | Unit               | Test Method |
| Surface Resistivity              | --                   | 1.0E+15     | ohms               | IEC 60093   |
| Volume Resistivity               | 1.0E+15              | --          | ohms·cm            | IEC 60093   |
| Electric Strength                | 25                   | --          | kV/mm              | IEC 60243-1 |
| Relative Permittivity            |                      |             |                    | IEC 60250   |
| 100 Hz                           | 3.40                 | --          |                    |             |
| 1 MHz                            | 3.10                 | --          |                    |             |
| Dissipation Factor               |                      |             |                    | IEC 60250   |
| 100 Hz                           | 6.5E-3               | --          |                    |             |
| 1 MHz                            | 0.017                | --          |                    |             |
| NOTE                             |                      |             |                    |             |
| 1.                               | 10°C/min             |             |                    |             |

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