

**DSM Akulon® N24-G8 PA6-GF40**

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

**Material Notes:**

40% Glass Reinforced

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Akulon-N24-G8-PA6-GF40.php](http://www.lookpolymers.com/polymer_DSM-Akulon-N24-G8-PA6-GF40.php)

| Physical Properties | Metric    | English                   | Comments       |
|---------------------|-----------|---------------------------|----------------|
| Density             | 1.45 g/cc | 0.0524 lb/in <sup>3</sup> | dry; ISO 1183  |
| Water Absorption    | 5.5 %     | 5.5 %                     | Sim. To ISO 62 |
| Moisture Absorption | 1.70 %    | 1.70 %                    | Sim. To ISO 62 |

| Mechanical Properties      | Metric                                          | English                                             | Comments          |
|----------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------|
| Tensile Strength, Ultimate | 200 MPa                                         | 29000 psi                                           | dry; ISO 527-1/-2 |
| Elongation at Break        | 2.5 %                                           | 2.5 %                                               | dry; ISO 527-1/-2 |
| Tensile Modulus            | 12.0 GPa                                        | 1740 ksi                                            | dry; ISO 527-1/-2 |
| Charpy Impact, Notched     | 1.40 J/cm <sup>2</sup><br>@Temperature -30.0 °C | 6.66 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | dry; ISO 179/1eA  |

| Thermal Properties                          | Metric                   | English                    | Comments                 |
|---------------------------------------------|--------------------------|----------------------------|--------------------------|
| CTE, linear, Parallel to Flow               | 20.0 µm/m-°C             | 11.1 µin/in-°F             | dry; ISO 11359-1/-2      |
| CTE, linear, Transverse to Flow             | 50.0 µm/m-°C             | 27.8 µin/in-°F             | dry; ISO 11359-1/-2      |
| Melting Point                               | 220 °C                   | 428 °F                     | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 °C                   | 428 °F                     | dry; ISO 75-1/-2         |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C                   | 410 °F                     | dry; ISO 75-1/-2         |
| Flammability, UL94                          | HB<br>@Thickness 1.50 mm | HB<br>@Thickness 0.0591 in | dry; IEC 60695-11-10     |

| Electrical Properties | Metric             | English            | Comments       |
|-----------------------|--------------------|--------------------|----------------|
| Volume Resistivity    | >= 1.00e+15 ohm-cm | >= 1.00e+15 ohm-cm | dry; IEC 60093 |
| Dielectric Constant   | 3.3                | 3.3                | dry; IEC 60250 |

| Electrical Properties      | @Frequency 1.00e+6<br>Metric<br>Hz | @Frequency 1.00e+6<br>English<br>Hz | Comments       |
|----------------------------|------------------------------------|-------------------------------------|----------------|
|                            | 3.5                                | 3.5                                 | dry; IEC 60250 |
|                            | @Frequency 100 Hz                  | @Frequency 100 Hz                   |                |
| Dissipation Factor         | 0.0050                             | 0.0050                              | dry; IEC 60250 |
|                            | @Frequency 100 Hz                  | @Frequency 100 Hz                   |                |
|                            | 0.015                              | 0.015                               | dry; IEC 60250 |
|                            | @Frequency 1.00e+6<br>Hz           | @Frequency 1.00e+6<br>Hz            |                |
| Comparative Tracking Index | 500 V                              | 500 V                               | dry; IEC 60112 |

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)  
Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)  
Tel : +86 021-51131842  
Mobile : +86 13061808058  
Skype : lookpolymers  
Address : United North Road 215,Fengxian District, Shanghai City,China