

## DSM Akulon® K224-HG2U (Cond.) 10% Glass Reinforced Nylon 6 (North America) (discontinued \*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled

### Material Notes:

Description: The Akulon portfolio is engineered for optimum performance to suit different processing techniques and end use markets. Unfilled Extrusion Resins Akulon resins are available with melt viscosities to suit all extrusion processes: barrier and coating film, tube and hose, monofilament, stock shapes. Akulon resins are characterized by: consistent quality high purity for film applications, low gel contents. Molding Resins Suited to all engineering demands: Unfilled low and medium viscosity grades Toughened unfilled grades Glass reinforced from 20-45% filled Low warpage reinforced grades Flame retardant; UL V0 rated and glow wire types Halogen free FR grades Blow moldable materials Laser markable resins Laser weldable, high burst pressure grades Toughened, reinforced resins High stiffness grades for metal replacement Akulon Ultraflow resins have high flow with mechanical properties similar to standard materials. Exceptional flow allows: productivity gains in molding lower built in stresses better surface appearance system cost reductions Applications for Molding resins There is an Akulon resin available suitable for any application requiring polyamides. Key areas where DSM has specific application knowledge are Automotive Under the hood and engine components Exterior and interior applications Electrical components and connectors Electrical Low voltage power distribution Lighting Power connectors Consumer Durables Power and lawn and garden tools Small Appliances Sports and leisure equipment Furniture accessories Industrial Goods Transportation (railways) Information provided by DSM.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Akulon-K224-HG2U-Cond-10-Glass-Reinforced-Nylon-6-North-America-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_DSM-Akulon-K224-HG2U-Cond-10-Glass-Reinforced-Nylon-6-North-America-nbspdiscontinued.php)

| Physical Properties                | Metric       | English                   | Comments                                  |
|------------------------------------|--------------|---------------------------|---|
| Density                            | 1.21 g/cc    | 0.0437 lb/in <sup>3</sup> | (DAM); ISO 1183                           |
| Water Absorption                   | 7.7 %        | 7.7 %                     | (DAM); Sim. to ISO 62                     |
| Moisture Absorption at Equilibrium | 2.3 %        | 2.3 %                     | Humidity Absorption (DAM); Sim. to ISO 62 |
| Linear Mold Shrinkage, Flow        | 0.0090 cm/cm | 0.0090 in/in              | DAM; ISO 294-4                            |
| Linear Mold Shrinkage, Transverse  | 0.013 cm/cm  | 0.013 in/in               | DAM; ISO 294-4                            |

| Mechanical Properties     | Metric                  | English                    | Comments     |
|---------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength at Break | 68.0 MPa                | 9860 psi                   | ISO 527-1/-2 |
| Elongation at Break       | 9.0 %                   | 9.0 %                      | ISO 527-1/-2 |
| Tensile Modulus           | 2.90 GPa                | 421 ksi                    | ISO 527-1/-2 |
| Charpy Impact, Notched    | 0.310 J/cm <sup>2</sup> | 1.48 ft-lb/in <sup>2</sup> | ISO 179/1eA  |
|                           | @Temperature -30.0 °C   | @Temperature -22.0 °F      |              |
|                           | 0.700 J/cm <sup>2</sup> | 3.33 ft-lb/in <sup>2</sup> | ISO 179/1eA  |

| Mechanical Properties | @Temperature 23.0 °C<br>Metric | @Temperature 73.4 °F<br>English | Comments                       |
|-----------------------|--------------------------------|---------------------------------|--------------------------------|
| Thermal Properties    | Metric                         | English                         | Comments                       |
| Melting Point         | 220 °C                         | 428 °F                          | 10°C/min (DAM); ISO 11357-1/-3 |

| Descriptive Properties            | Value | Comments |
|-----------------------------------|-------|----------|
| Heat stabilized or stable to heat | Yes   |          |
| Injection molding                 | Yes   |          |
| Lubricants                        | Yes   |          |
| Release Agent                     | Yes   |          |
| With Fillers                      | Yes   |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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