

DSM Akulon® K222-KGV4 Nylon 6-20% Glass Reinforced (European and Asian Grade) (Cond)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

The Akulon® product portfolio is engineered for optimum performance to suit different processing techniques and end use markets. Akulon Nylon 6 is used for extrusion applications including barrier film, stock shapes, convoluted tubes, and monofilament. Akulon XP is a high-productivity, high-performance PA6 grade for film extrusion processes. Medium viscosity, unreinforced or reinforced Akulon grades are used for various injection molding and blow molding applications. Akulon® Ultraflow® is a high-productivity, high-performance PA6 family for molding processes. Key applications for Akulon: Automotive: Intake manifold, Engine, Powertrain, Airbag containers, Exterior trim, Interior trim, Electrical components and connectors Consumer durables: Power tools, Lawn and garden tools, Small appliances, Sports and leisure equipment, Furniture, Industrial Goods, Transportation E&E: Low voltage switch gear/power distribution, Lighting, Power connectors Film: Specialty and barrier films Information provided by DSM.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-K222-KGV4-Nylon-6-20-Glass-Reinforced-European-and-Asian-Grade-Cond.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-----------------|
| Density | 1.34 g/cc | 0.0484 lb/in ³ | (DAM); ISO 1183 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength at Break | 45.0 MPa | 6530 psi | ISO 527-1/-2 |
| Elongation at Break | 15 % | 15 % | ISO 527-1/-2 |
| Tensile Modulus | 2.50 GPa | 363 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 4.00 J/cm ² | 19.0 ft-lb/in ² | ISO 179/1eU |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact Unnotched | 4.50 J/cm ² | 21.4 ft-lb/in ² | ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.400 J/cm ² | 1.90 ft-lb/in ² | ISO 179/1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 0.600 J/cm ² | 2.86 ft-lb/in ² | ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|--------------------------------|
| Melting Point | 220 °C | 428 °F | 10°C/min (DAM); ISO 11357-1/-3 |
| UL RTI, Electrical | 140 °C | 284 °F | UL746B |

| Thermal Properties | @Thickness 1.50 mm Metric | @Thickness 0.0591 in English | Comments |
|-----------------------------------|------------------------------|---------------------------------|----------|
| | 140 °C | 284 °F | UL746B |
| | @Thickness 0.800 mm | @Thickness 0.0315 in | |
| UL RTI, Mechanical without Impact | 130 °C | 266 °F | UL746B |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 130 °C | 266 °F | UL746B |
| | @Thickness 0.800 mm | @Thickness 0.0315 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|--------------------|----------------|
| Volume Resistivity | 1.00e+13 ohm-cm | 1.00e+13 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+14 ohm | 1.00e+14 ohm | IEC 60093 |
| Dielectric Constant | 3.9 | 3.9 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 10 | 10 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 25.0 kV/mm | 635 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.10 | 0.10 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 0.30 | 0.30 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Comparative Tracking Index | 600 V | 600 V | IEC 60112 |
| | >= 600 V | >= 600 V | PLC 0; UL 746A |

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

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