

DSM Akulon® F249-HG4 Nylon 6-20% Glass Reinforced (European Grade) (Dry)

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-F249-HG4-Nylon-6-20-Glass-Reinforced-European-Grade-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------|---------------------------|-------------------------------------|
| Density | 1.27 g/cc | 0.0459 lb/in ³ | ISO 1183 |
| Water Absorption | 8.0 % | 8.0 % | Sim. to ISO 62 |
| Moisture Absorption at Equilibrium | 2.4 % | 2.4 % | Humidity Absorption; Sim. to ISO 62 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|--|--------------|
| Tensile Strength at Break | 135 MPa | 19600 psi | ISO 527-1/-2 |
| Elongation at Break | 4.0 % | 4.0 % | ISO 527-1/-2 |
| Tensile Modulus | 7.20 GPa | 1040 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 8.00 J/cm ² @Temperature 23.0 °C | 38.1 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | 1.10 J/cm ² @Temperature 23.0 °C | 5.24 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|--------------------------|
| Melting Point | 220 °C | 428 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C | 419 °F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 195 °C | 383 °F | ISO 75-1/-2 |

| Descriptive Properties | Value | Comments |
|-----------------------------------|-------|----------|
| Blow Molding | Yes | |
| Heat stabilized or stable to heat | Yes | |
| With Fillers | Yes | |

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