

DSM Akulon® K222-KGV5

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

25% Glass Reinforced, Flame Retardant (Halogen free), Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-K222-KGV5.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|----------------|
| Density | 1.37 g/cc | 0.0495 lb/in ³ | dry; ISO 1183 |
| Water Absorption | 6.1 % | 6.1 % | Sim. To ISO 62 |
| Moisture Absorption | 1.60 % | 1.60 % | Sim. To ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in | ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.010 cm/cm | 0.010 in/in | ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|--|-------------------|
| Tensile Strength, Ultimate | 85.0 MPa | 12300 psi | dry; ISO 527-1/-2 |
| Elongation at Break | 4.8 % | 4.8 % | dry; ISO 527-1/-2 |
| Tensile Modulus | 6.50 GPa | 943 ksi | dry; ISO 527-1/-2 |
| Charpy Impact Unnotched | 4.50 J/cm ² @Temperature 23.0 °C | 21.4 ft-lb/in ² @Temperature 73.4 °F | dry; ISO 179/1eU |
| Charpy Impact, Notched | 0.400 J/cm ² @Temperature 23.0 °C | 1.90 ft-lb/in ² @Temperature 73.4 °F | dry; ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|--------------------|------------------------------|---------------------------------|--|
| Melting Point | 220 °C | 428 °F | 10°C/min; ISO 11357-1/-3 |
| Flammability, UL94 | V-2 @Thickness 1.60 mm | V-2 @Thickness 0.0630 in | dry; IEC 60695-11-10 |
| | V-2 @Thickness 0.800 mm | V-2 @Thickness 0.0315 in | dry; IEC 60695-11-10 |
| Glow Wire Test | 960 °C @Thickness 1.60 mm | 1760 °F @Thickness 0.0630 in | Glow Wire Flammability Index, dry; IEC 60695-2-12 |
| | 960 °C | 1760 °F | Glow Wire Flammability Index, dry; |

Thermal Properties

Metric

@ Thickness 0.750 mm

English

@ Thickness 0.0295 in

IEC 60695-2-12

Comments

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