

Akulon® K222-KGV6

PA6-GF30 FR(30)

30% Glass Reinforced, Heat Stabilized, Flame Retardant
(halogen- phosphorous-free)

Print Date: 2017-11-03

| Properties | Typical Data | Unit | Test Method |
|---|--------------|-------------------|-----------------|
| Rheological properties | | | |
| | dry / cond | | |
| Molding shrinkage (parallel) | 0.55 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 0.9 / * | % | ISO 294-4 |
| Mechanical properties | | | |
| | dry / cond | | |
| Tensile modulus | 6900 / 3200 | MPa | ISO 527-1/-2 |
| Stress at break | 80 / 48 | MPa | ISO 527-1/-2 |
| Strain at break | 3.6 / 25 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 43 / - | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 4 / - | kJ/m ² | ISO 179/1eA |
| Thermal properties | | | |
| | dry / cond | | |
| Melting temperature (10°C/min) | 220 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 180 / * | °C | ISO 75-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / * | mm | IEC 60695-11-10 |
| Burning Behav. at thickness h | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.75 / * | mm | IEC 60695-11-10 |
| Glow Wire Flammability Index GWFI | 960 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (1) tested) | 1.6 / - | mm | IEC 60695-2-12 |
| Glow Wire Flammability Index GWFI | 960 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (2) tested) | 0.75 / - | mm | IEC 60695-2-12 |
| Glow Wire Ignition Temperature GWIT | 750 / - | °C | IEC 60695-2-13 |
| GWIT (Thickness (1) tested) | 1.6 / - | mm | IEC 60695-2-13 |

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| Properties | Typical Data | Unit | Test Method |
|-------------------------------------|-------------------|-------------------|----------------|
| Glow Wire Ignition Temperature GWIT | 775 / - | °C | IEC 60695-2-13 |
| GWIT (Thickness (2) tested) | 0.75 / - | mm | IEC 60695-2-13 |
| Electrical properties | dry / cond | | |
| Comparative tracking index | 525 / - | V | IEC 60112 |
| Other properties | dry / cond | | |
| Water absorption | 5.6 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.5 / * | % | Sim. to ISO 62 |
| Density | 1440 / - | kg/m ³ | ISO 1183 |

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