

# Akulon® K222-KMV5 /A

## PA6-MD25 FR(30)

25% Mineral Reinforced, Flame Retardant (halogen free), Color stabilized

Print Date: 2018-12-13

| Properties                                   | Typical Data | Unit              | Test Method     |
|--|--------------|-------------------|-----------------|
| <b>Rheological properties</b>                |              |                   |                 |
|  | dry / cond   |                   |                 |
| Molding shrinkage (parallel)                 | 0.91 / *     | %                 | ISO 294-4       |
| Molding shrinkage (normal)                   | 0.82 / *     | %                 | ISO 294-4       |
| <b>Mechanical properties</b>                 |              |                   |                 |
|  | dry / cond   |                   |                 |
| Tensile modulus                              | 6000 / 2500  | MPa               | ISO 527-1/-2    |
| Stress at break                              | 65 / 35      | MPa               | ISO 527-1/-2    |
| Strain at break                              | 2.5 / 30     | %                 | ISO 527-1/-2    |
| Charpy impact strength (+23°C)               | 29 / -       | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy impact strength (-30°C)               | 25 / -       | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength (+23°C)       | 2 / -        | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy notched impact strength (-30°C)       | 2 / -        | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>Thermal properties</b>                    |              |                   |                 |
|  | dry / cond   |                   |                 |
| Melting temperature (10°C/min)               | 220 / *      | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa)    | 110 / *      | °C                | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa)    | 205 / *      | °C                | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel) | 0.5 / *      | E-4/°C            | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)   | 0.5 / *      | E-4/°C            | ISO 11359-1/-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  |

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| Properties                        | Typical Data      | Unit              | Test Method    |
|-----------------------------------|-------------------|-------------------|----------------|
| GWFI (Thickness (1) tested)       | 0.75 / -          | mm                | IEC 60695-2-12 |
| Glow Wire Flammability Index GWFI | 960 / -           | °C                | IEC 60695-2-12 |
| GWFI (Thickness (2) tested)       | 3 / -             | mm                | IEC 60695-2-12 |
| <b>Electrical properties</b>      | <b>dry / cond</b> |                   |                |
| Volume resistivity                | >1E13 / -         | Ohm*m             | IEC 60093      |
| Surface resistivity               | * / >1E15         | Ohm               | IEC 60093      |
| Comparative tracking index        | * / 600           | V                 | IEC 60112      |
| <b>Other properties</b>           | <b>dry / cond</b> |                   |                |
| Water absorption                  | 6.2 / *           | %                 | Sim. to ISO 62 |
| Humidity absorption               | 1.8 / *           | %                 | Sim. to ISO 62 |
| Density                           | 1380 / -          | kg/m <sup>3</sup> | ISO 1183       |