

# DSM Engineering Plastics - Property Data

## Akulon® K230-HPV8

(PA6+Imod)

Flame Retardant, Impact Modified, Heat Stabilized

| Properties                                   | Typical Data | Unit              | Test Method     |
|----------------------------------------------|--------------|-------------------|-----------------|
| <b>RHEOLOGICAL PROPERTIES</b>                |              | dry / cond        |                 |
| Molding shrinkage (parallel)                 | 1.85 / *     | %                 | ISO 294-4       |
| Molding shrinkage (normal)                   | 1.85 / *     | %                 | ISO 294-4       |
| <b>MECHANICAL PROPERTIES</b>                 |              | dry / cond        |                 |
| Tensile modulus                              | 1200 / -     | MPa               | ISO 527-1/-2    |
| Yield stress                                 | 25 / -       | MPa               | ISO 527-1/-2    |
| Yield strain                                 | 6 / -        | %                 | ISO 527-1/-2    |
| Nominal strain at break                      | >50 / -      | %                 | ISO 527-1/-2    |
| Charpy impact strength (+23°C)               | N / -        | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy impact strength (-30°C)               | N / -        | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength (+23°C)       | 50 / -       | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy notched impact strength (-30°C)       | 12 / -       | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>THERMAL PROPERTIES</b>                    |              | dry / cond        |                 |
| Coeff. of linear therm. expansion (parallel) | 1.2 / *      | E-4/°C            | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)   | 1.2 / *      | E-4/°C            | ISO 11359-1/-2  |
| Burning Behav. at 1.6 mm nom. thickn.        | V-2 / *      | class             | IEC 60695-11-10 |
| Thickness tested                             | 1.6 / *      | mm                | IEC 60695-11-10 |
| Burning Behav. at thickness h                | V-2 / *      | class             | IEC 60695-11-10 |
| Thickness tested                             | 0.8 / *      | mm                | IEC 60695-11-10 |
| <b>ELECTRICAL PROPERTIES</b>                 |              | dry / cond        |                 |
| Volume resistivity                           | 1E13 / -     | Ohm*m             | IEC 60093       |
| Surface resistivity                          | */ 1E13      | Ohm               | IEC 60093       |
| <b>OTHER PROPERTIES</b>                      |              | dry / cond        |                 |
| Density                                      | 1120 / -     | kg/m <sup>3</sup> | ISO 1183        |

DSM Product

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