

# DSM Engineering Plastics - Property Data

## Stanyl® TW371

PA46-unfilled

Heat Stabilized, Wear and Friction Modified

| Properties                                   | Typical Data | Unit              | Test Method     |
|----------------------------------------------|--------------|-------------------|-----------------|
| <b>RHEOLOGICAL PROPERTIES</b>                |              | dry / cond        |                 |
| Molding shrinkage (parallel)                 | 2 / *        | %                 | ISO 294-4       |
| Molding shrinkage (normal)                   | 2 / *        | %                 | ISO 294-4       |
| <b>MECHANICAL PROPERTIES</b>                 |              | dry / cond        |                 |
| Tensile modulus                              | 2900 / 1000  | MPa               | ISO 527-1/-2    |
| Yield stress                                 | 90 / 50      | MPa               | ISO 527-1/-2    |
| Nominal strain at break                      | 25 / >50     | %                 | ISO 527-1/-2    |
| Charpy notched impact strength (+23°C)       | 5 / 30       | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>THERMAL PROPERTIES</b>                    |              | dry / cond        |                 |
| Melting temperature (10°C/min)               | 295 / *      | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa)    | 190 / *      | °C                | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel) | 0.8 / *      | E-4/°C            | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)   | 1 / *        | E-4/°C            | ISO 11359-1/-2  |
| Burning Behav. at thickness h                | HB / *       | class             | IEC 60695-11-10 |
| Thickness tested                             | 3 / *        | mm                | IEC 60695-11-10 |
| UL recognition                               | UL / *       | -                 | -               |
| <b>ELECTRICAL PROPERTIES</b>                 |              | dry / cond        |                 |
| Volume resistivity                           | 1E12 / 1E7   | Ohm*m             | IEC 60093       |
| Comparative tracking index                   | 400 / 400    | -                 | IEC 60112       |
| <b>OTHER PROPERTIES</b>                      |              | dry / cond        |                 |
| Humidity absorption                          | 3.2 / *      | %                 | Sim. to ISO 62  |
| Density                                      | 1250 / -     | kg/m <sup>3</sup> | ISO 1183        |



Astonishing **Stanyl®**

