



# Component - Plastics

File Number: E47960

DSM ENGINEERING MATERIALS B V

URMONDERBAAN 22  
GELEEN, 6167 RD Netherlands



## Stanyl: TE250F6(h1)(j)

Polyamide 46 (PA46), pellets, glass reinforced, flame retardant

(h1) - Virgin and regrind, up to 50% by weight inclusive, in thicknesses of 0.75mm and greater, have the same basic material characteristics, except for CTI.

(j) - Virgin and regrind, up to 100% by weight inclusive, have the same basic material characteristics with respect to Flammability in the 0.75mm thickness and greater.

| Flammability                          | Value    | Test Method          |
|---------------------------------------|----------|----------------------|
| Flame Rating                          |          | UL 94                |
| 0.35 mm, ALL                          | V-0      | IEC 60695-11-10, -20 |
| 0.75 mm, ALL                          | V-0      |                      |
| 1.5 mm, ALL                           | V-0      |                      |
| 3.0 mm, ALL                           | V-0      |                      |
| Electrical                            | Value    | Test Method          |
| Hot-wire Ignition (HWI)               |          | UL 746A              |
| 0.35 mm                               | PLC 0    |                      |
| 0.75 mm                               | PLC 0    |                      |
| 1.5 mm                                | PLC 0    |                      |
| 3.0 mm                                | PLC 0    |                      |
| High Amp Arc Ignition (HAI)           |          | UL 746A              |
| 0.35 mm                               | PLC 0    |                      |
| 0.75 mm                               | PLC 0    |                      |
| 1.5 mm                                | PLC 0    |                      |
| 3.0 mm                                | PLC 0    |                      |
| Comparative Tracking Index (CTI)      | PLC 2    | UL 746A              |
| Dielectric Strength                   | 23 kV/mm | ASTM D149            |
| High Voltage Arc Tracking Rate (HVTR) | PLC 1    | UL 746A              |
| Arc Resistance                        | PLC 6    | ASTM D495            |
| Thermal                               | Value    | Test Method          |
| RTI Elec                              |          | UL 746B              |
| 0.75 mm                               | 140 °C   |                      |
| 1.5 mm                                | 140 °C   |                      |
| 3.0 mm                                | 140 °C   |                      |
| RTI Imp                               |          | UL 746B              |
| 0.75 mm                               | 110 °C   |                      |
| 1.5 mm                                | 125 °C   |                      |
| 3.0 mm                                | 130 °C   |                      |
| RTI Str                               |          | UL 746B              |
| 0.75 mm                               | 120 °C   |                      |
| 1.5 mm                                | 125 °C   |                      |
| 3.0 mm                                | 130 °C   |                      |
| Ball Pressure Test (285°C)            | Pass     | IEC 60695-10-2       |

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| Physical           | Value | Test Method            |
|--------------------|-------|------------------------|
| Dimensional Change | 0.0 % | ASTM D1042<br>ISO 2796 |