

## TECHNICAL DATA SHEET

### Enform® ST90 Plus

Enform® ST90 Plus is acetal copolymer highly impact modified grade for demanding applications. Provides a significant improvement in impact strength and flexibility over standard impact modified grades.

| Properties                                   | Test method       | Unit                    | Value |
|--|-------------------|-------------------------|-------|
| Density                                      | ISO 1183          | kg/m <sup>3</sup>       | 1370  |
| Melt volume rate(190°C/2,16kg)               | ISO 1133          | cm <sup>3</sup> /10 min | 4     |
| Mold shrinkage - parallel                    | ISO 294-4         | %                       | 1.6   |
| Mold shrinkage - normal                      | ISO 294-4         | %                       | 1.5   |
| Water absorption (23°C-sat)                  | ISO 62            | %                       | 0.8   |
| Tensile modulus (1mm/min)                    | ISO 527-2/1A      | MPa                     | 1650  |
| Tensile stress at yield (50mm/min)           | ISO 527-2/1A      | MPa                     | 43    |
| Tensile strain at yield (50mm/min)           | ISO 527-2/1A      | %                       | 16    |
| Flexural modulus (23°C)                      | ISO 178           | MPa                     | 1550  |
| Charpy impact strength @ 23°C                | ISO 179/1eU       | kJ/m <sup>2</sup>       | NB    |
| Charpy impact strength @ -30°C               | ISO 179/1eU       | kJ/m <sup>2</sup>       | NB    |
| Charpy notched impact strength (@ 23°C)      | ISO 179/1eA       | kJ/m <sup>2</sup>       | 21.0  |
| Charpy notched impact strength (@ -30°C)     | ISO 179/1eA       | kJ/m <sup>2</sup>       | 11.0  |
| Melting temperature (10°C/min)               | ISO 11357-1,-2,-3 | °C                      | 166   |
| DTUL @ 1.8 MPa                               | ISO 75-1/-2       | °C                      | 75    |
| DTUL @ 0.45 MPa                              | ISO 75-1/-2       | °C                      | 140   |
| Vicat softening temperature B50 (50°C/h 50N) | ISO 306           | °C                      | 160   |
| Coeff. of linear therm. expansion (parallel) | ISO 11359-2       | E-4/°C                  | 1.2   |
| Coeff. of linear therm. expansion (normal)   | ISO 11359-2       | E-4/°C                  | 1.1   |