

## TECHNICAL DATA SHEET

### Enform® ST90

Enform® ST90 is acetal copolymer with impact modified grade for applications requiring improved impact. Provides good impact strength while improving modulus and weld line strength over standard impact modified grades.

Properties	Test method	Unit	Value
Density	ISO 1183	kg/m <sup>3</sup>	1390
Melt volume rate(190°C/2,16kg)	ISO 1133	cm <sup>3</sup> /10 min	6.5
Mold shrinkage - parallel	ISO 294-4	%	1.9
Mold shrinkage - normal	ISO 294-4	%	1.8
Water absorption (23°C-sat)	ISO 62	%	0.8
Tensile modulus (1mm/min)	ISO 527-2/1A	MPa	2300
Tensile stress at yield (50mm/min)	ISO 527-2/1A	MPa	55
Tensile strain at yield (50mm/min)	ISO 527-2/1A	%	10
Flexural modulus (23°C)	ISO 178	MPa	2200
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>	190.0
Charpy notched impact strength (@ 23°C)	ISO 179/1eA	kJ/m <sup>2</sup>	10.0
Charpy notched impact strength (@ -30°C)	ISO 179/1eA	kJ/m <sup>2</sup>	6.0
Melting temperature (10°C/min)	ISO 11357-1,-2,-3	°C	166
DTUL @ 1.8 MPa	ISO 75-1/2	°C	87
DTUL @ 0.45 MPa	ISO 75-1/2	°C	151
Vicat softening temperature B50 (50°C/h 50N)	ISO 306	°C	144
Coeff. of linear therm. expansion (parallel)	ISO 11359-2	E-4/°C	1.1
Coeff. of linear therm. expansion (normal)	ISO 11359-2	E-4/°C	1.1