

## TECHNICAL DATA SHEET

### Enform® 090 LWF3

Enform® 090 LWF3 is an acetal copolymer with a nominal 9 melt flow rate base polymer and 3% of polytetrafluoroethylene filler (PTFE). It is designed for use in wear applications against plastic, metal, glass, or ceramic mating surfaces where silicone lubricants can not be tolerated.

Properties	Test method	Unit	Value
Density	ISO 1183	kg/m <sup>3</sup>	1410
Melt volume rate (190°C/2,16kg)	ISO 1133	cm <sup>3</sup> /10 min	8
Mold shrinkage - parallel	ISO 294-4	%	2.3
Mold shrinkage - normal	ISO 294-4	%	1.9
Tensile modulus (1mm/min)	ISO 527-2/1A	MPa	2600
Tensile stress at yield (50mm/min)	ISO 527-2/1A	MPa	60
Tensile strain at yield (50mm/min)	ISO 527-2/1A	%	9
Flexural modulus (23°C)	ISO 178	MPa	2550
Charpy impact strength @ 23°C	ISO 179/1eU	kJ/m <sup>2</sup>	120.0
Charpy impact strength @ -30°C	ISO 179/1eU	kJ/m <sup>2</sup>	120.0
Charpy notched impact strength (@ 23°C)	ISO 179/1eA	kJ/m <sup>2</sup>	5.0
Notched impact strength (Izod) (@ 23°C)	ISO 180/1A	kJ/m <sup>2</sup>	5.5
Melting temperature (10°C/min)	ISO 11357-1,-2,-3	°C	166
DTUL @ 1.8 MPa	ISO 75-1/-2	°C	98
Vicat softening temperature B50 (50°C/h 50N)	ISO 306	°C	161
Coeff. of linear therm. expansion (parallel)	ISO 11359-2	E-4/°C	1
Coeff. of linear therm. expansion (normal)	ISO 11359-2	E-4/°C	0.9