

Endur® 1100

Endur® 1100 is a general purpose and high flow material, unreinforced polybutylene terephthalate with a good balance of mechanical properties and processability

Properties	Test method	Unit	Value
Density	ISO 1183	g/m ³	1,3
Viscosity number	ISO 1628-5	cm ³ /g	120
Waterabsorption up to saturation (23°C)	ISO 62	%	0,5
Moisture absorption (24h 23°C)	ISO 62	%	0,25
Molding shrinkage (longitudinal) (260°C/WZ 80°C)	ISO 2577	%	1,8
Molding shrinkage (transverse) (600 bar)	ISO 2577	%	1,8
Tensile modulus (1 mm/min)	ISO 527	MPa	2600
Yield stress (50 mm/min)	ISO 527	MPa	60
Yield strain (50 mm/min)	ISO 527	%	4
Nominal strain at break (50 mm/min)	ISO 527	%	35
Flexural modulus (2 mm/min)	ISO 178	MPa	2300
Flexural strength (2 mm/min)	ISO 178	MPa	90
Flexural strain at flexural strength (2 mm/min)	ISO 178	%	5
Flexural stress at 3,5% strain (2 mm/min)	ISO 178	MPa	80

Charpy impact strength (23°C)	ISO 179-1eU	kJ/m ²	230
Charpy impact strength (-30°C)	ISO 179-1eU	kJ/m ²	100
Charpy notched impact strength (23°C)	ISO 179-1eA	kJ/m ²	5,5
Charpy notched impact strength (-30°C)	ISO 179-1eA	kJ/m ²	4,5
Ball indentation (358 N)	ISO 2039-1	N/mm ²	140
Melting temperature (10°C/min)	ISO 11357	°C	220 - 225
Temp. of deflection under load (HDT A) (1,80 MPa)	ISO 75	°C	55
Temp. of deflection under load (HDT B) (0,45 MPa)	ISO 75	°C	160
Vicat softening temperature (50 N, 50°C/h)	ISO 306	°C	185
Coeff. of linear therm. expansion (longitudinal) (23 - 80°C)	ISO 11359	10 ⁻⁴ /k	1,3
Coeff. of linear therm. expansion (transverse) (23 - 80°C)	ISO 11359	10 ⁻⁴ /k	1,3
Flammability test (0,80 mm)	TC	klasse / Classicat.	HB
Glow wire flammability index (2,0 mm)	IEC 60695-2-12	°C	750