

TECHNICAL DATA SHEET

Endur® 2100 GF15

Compound PBT / PET GF15, polymer blend, 15 % glass fiber reinforced, injection molded parts with superior gloss

Properties	Test method	Unit	Value
Contents of reinforced materials	-	%	15
Density	ISO 1183	g/cm ³	1,43
Melt volume flow rate (265°C/2,16kg)	ISO 1133	cm ³ /10 min	20
Waterabsorption up to saturation (23°C)	ISO 62	%	0,4
Moisture absorption (24h 23°C)	ISO 62	%	0,2
Molding shrinkage (longitudinal) (260°C/WZ 80°C)	ISO 2577	%	0,35
Molding shrinkage (transverse) (600 bar)	ISO 2557	%	1,2
Tensile modulus (1 mm/min)	ISO 527	MPa	6100
Stress at break (5 mm/min)	ISO 527	MPa	110
Strain at break (5 mm/min)	ISO 527	%	3
Flexural modulus (2 mm/min)	ISO 178	MPa	5000
Flexural strength (2 mm/min)	ISO 178	MPa	155
Flexural strength at flexural strength (2 mm/min)	ISO 178	%	4,5
Flexural strength at 3,5% strain (2 mm/min)	ISO 178	MPa	160

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Properties	Test method	Unit	Value
Charpy impact strength (23°C)	ISO 179-1eU	kJ/m ²	35
Charpy impact strength (-30°C)	ISO 179-1eU	kJ/m ²	35
Charpy notched impact strength (23°C)	ISO 179-1eA	kJ/m ²	6
Charpy notched impact strength (-30°C)	ISO 179-1eA	kJ/m ²	6
Ball indentation	ISO 2039-1	N/mm ²	190
Melting temperature (10°C/min)	ISO 11357	°C	220 - 255
Temp. of deflection under load (HDT A) (1,80 MPa)	ISO 75	°C	190
Temp. of deflection under load (HDT B) (0,45 MPa)	ISO 75	°C	220
Temp. of deflection under load (HDT C) 8,00 MPa)	ISO 75	°C	65
Vicat softening temperature (50 N, 50°C/h)	ISO 306	°C	200
Coeff. of linear therm. expansion (longitudinal) (23 - 80°C)	ISO 11359	10 ⁻⁴ /k	0,3
Coeff. of linear therm. expansion (transverse) (23 - 80°C)	ISO 11359	10 ⁻⁴ /k	0,8
Flammability test (0,80 mm)	TC	Klasse / Classificat.	HB
Glow wire flammability index (2,0 mm)	IEC 60695-2-12	°C	750