POLYMER COMPOUNDERS LIMITED

Notoxicom® B6000

Acrylonitrile Styrene Butadiene/Polycarbonate/Polyphosphonate-co-carbonate

Notoxicom B6000 is a UL94 Halogen Free 5V and V0 FR rated PC/ABS with superior heat, impact, density performance and low smoke toxicity .

Physical Properties	Typical Value	Unit	Test Method based on
Density	1150	Kg/m^3	ISO 1183
Water absorption (23°C, sat)	0.70	%	ISO 62
Moisture absorption (23°C, 50% RH)	0.22	%	ISO 62
Mould shrinkage	0.4-0.7	%	ISO 294
Melt Flow (260°C / 5 kg)	18	g/10 min	ISO 1133
Glow Wire Flammability Index 3mm	960	Deg C	IEC 60695-2-11
Flammability (3.0 mm)	V0		UL94
Flammability (3.0 mm)	5VB		UL94
UL YELLOWCARD	E524263.QMFZ2		

All data given are typical product data and do not represent minimum values.
The actual value may vary depending on colour and additives.

Edwardson Road, Meadowfield Industrial Estate, Meadowfield, Durham, DH7 8RL, UK

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Mechanical Properties	Typical Value	Unit	Test Method based on
Tensile Strength at Yield (50mm/min)	50	MPa	ISO 527
Tensile Elongation at Break (50mm/min)	100	%	ISO 527
Tensile Modulus (1mm/min)	2400	MPa	ISO 527
Flexural Strength	85	MPa	ISO 178
Izod Notched Impact (RT)	46	kJ/m2	ISO 180/1A
Charpy Notched Impact (RT)	50	kJ/m2	ISO 179/1eA
Charpy Unnotched Impact (RT)	NB	kJ/m2	ISO 179/1eU
Rockwell hardness	120	R	ISO 2039-2

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Thermal Properties	Typical Value	Unit	Test Method based on
CTE linear	5.0E-04	1/°C	ISO 11359-2 (Parallel)
HDT (0.46 MPa)	130	°C	ISO 75/Ae
HDT (1.8 MPa)	110	°C	ISO 75/Ae
Vicat Softening point (B/50)	125	°C	ISO 306

Processing Properties	Typical Value	Unit
Melt Temperature	240-260	°C
Mould Temperature	70	°C
Injection Velocity	60.0	mm/s
Drying Time	3 to 6	hr
Drying Temperature	100	°C

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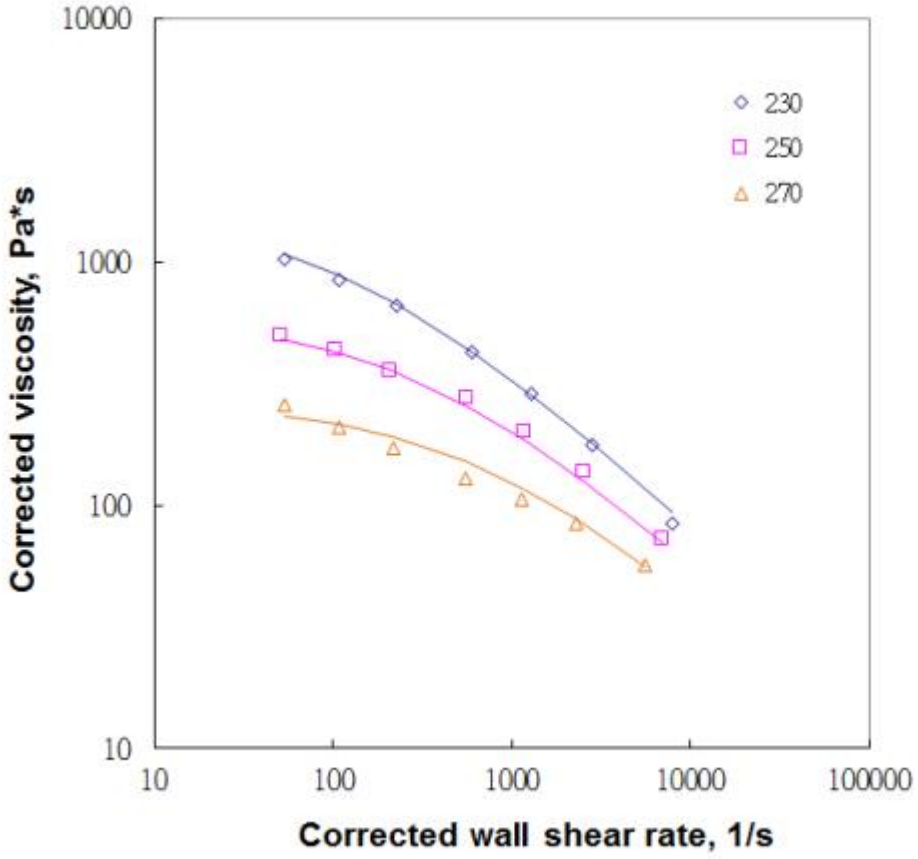

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Coefficient of Thermal Expansion

Purpose	CLTE measures how to expand with a temperature change.
Instrument	Perkin Elmer TMA 4000
Method	ASTM E831 : 2012
Test temperature	20°C to 90°C
Specimen size	10.4mm*3.0mm*10.4mm
replicates	3

Data

Flow direction(α1)		
Test 1	49.4×10^{-6}	/°C
Test 2	50.8×10^{-6}	/°C
Test 3	51.5×10^{-6}	/°C
average	50.6×10^{-6}	/°C

Cross-flow direction(α2)		
Test 1	49.9×10^{-6}	/°C
Test 2	49.4×10^{-6}	/°C
Test 3	52.7×10^{-6}	/°C
average	50.7×10^{-6}	/°C

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