

Notoxicom® B6000-90

Acrylonitrile Styrene Butadiene/Polycarbonate/Polyphosphonate-co-carbonate

Notoxicom B6000-90 is an antimicrobial 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.

All information supplied by or on behalf of PCL in relation to its products whether in the nature of data, recommendations or otherwise is supported by research and believed reliable, but PCL assumes no liability whatsoever in respect of application, processing or use of afore-mentioned products, or any consequences thereof. No liability whatsoever shall attach to PCL for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or other use of the afore-mentioned information or products by the user.

The user undertakes all liability in respect of the application, processing or use of the afore mentioned information or product, whose properties he shall verify or any consequence thereof.

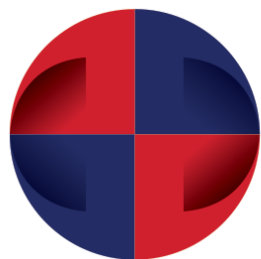
Edwards Road, Meadowfield Industrial Estate, Meadowfield, Durham, DH7 8RL, UK

tel: +44 (0)191 378 37 37



fax: +44 (0)191 378 17 17

www.polymer-compounders.com



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

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

All information supplied by or on behalf of PCL in relation to its products whether in the nature of data, recommendations or otherwise is supported by research and believed reliable, but PCL assumes no liability whatsoever in respect of application, processing or use of afore-mentioned products, or any consequences thereof. No liability whatsoever shall attach to PCL for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or other use of the afore-mentioned information or products by the user.

The user undertakes all liability in respect of the application, processing or use of the afore mentioned information or product, whose properties he shall verify or any consequence thereof.

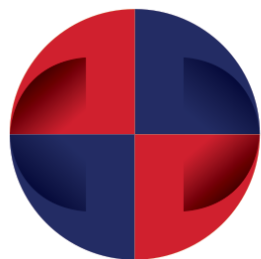
Edwards Road, Meadowfield Industrial Estate, Meadowfield, Durham, DH7 8RL, UK

tel: +44 (0)191 378 37 37



fax: +44 (0)191 378 17 17

www.polymer-compounders.com



POLYMER

COMPOUNDERS

LIMITED

Notoxicom® B6000-90

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

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

All information supplied by or on behalf of PCL in relation to its products whether in the nature of data, recommendations or otherwise is supported by research and believed reliable, but PCL assumes no liability whatsoever in respect of application, processing or use of afore-mentioned products, or any consequences thereof. No liability whatsoever shall attach to PCL for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or other use of the afore-mentioned information or products by the user.

The user undertakes all liability in respect of the application, processing or use of the afore mentioned information or product, whose properties he shall verify or any consequence thereof.

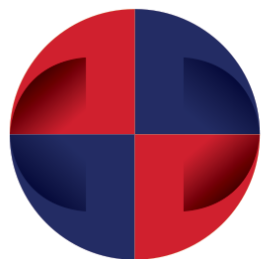
Edwardson Road, Meadowfield Industrial Estate, Meadowfield, Durham, DH7 8RL, UK

tel: +44 (0)191 378 37 37



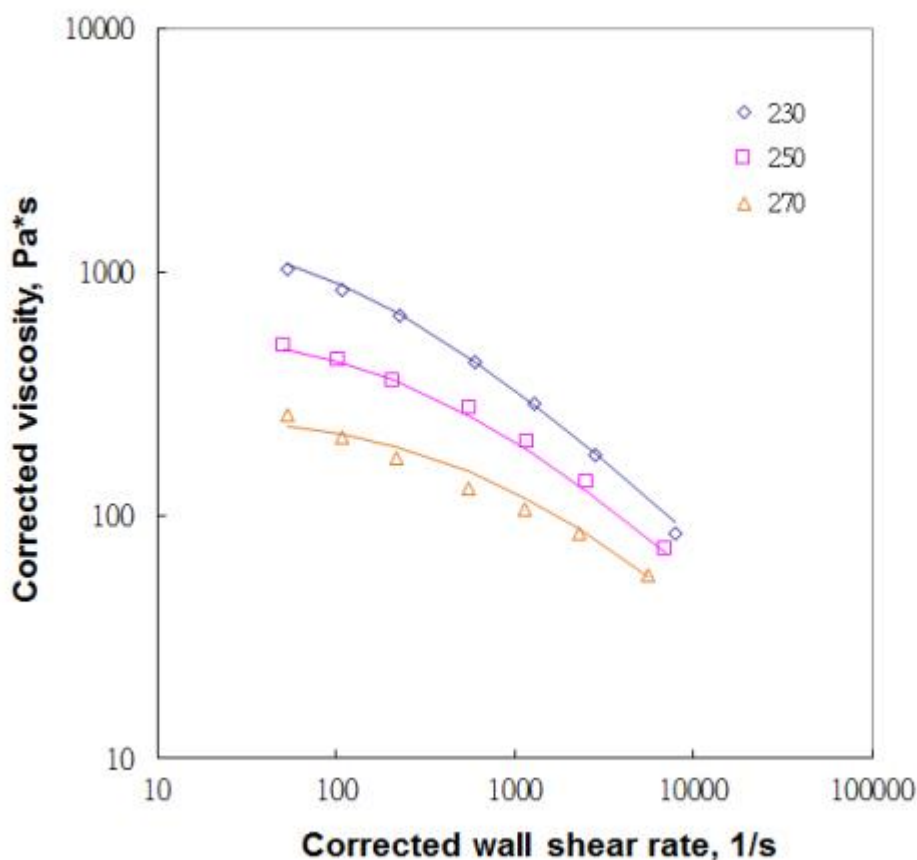
fax: +44 (0)191 378 17 17

www.polymer-compounders.com



POLYMER COMPOUNDERS LIMITED

Notoxicom® B6000-90



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

All information supplied by or on behalf of PCL in relation to its products whether in the nature of data, recommendations or otherwise is supported by research and believed reliable, but PCL assumes no liability whatsoever in respect of application, processing or use of afore-mentioned products, or any consequences thereof. No liability whatsoever shall attach to PCL for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or other use of the afore-mentioned information or products by the user.

The user undertakes all liability in respect of the application, processing or use of the afore mentioned information or product, whose properties he shall verify or any consequence thereof.

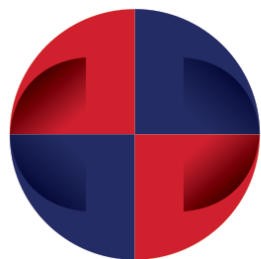
Edwardson Road, Meadowfield Industrial Estate, Meadowfield, Durham, DH7 8RL, UK

tel: +44 (0)191 378 37 37



fax: +44 (0)191 378 17 17

www.polymer-compounders.com



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(α_1)	
Test 1	$49.4 \times 10^{-6} / ^\circ\text{C}$
Test 2	$50.8 \times 10^{-6} / ^\circ\text{C}$
Test 3	$51.5 \times 10^{-6} / ^\circ\text{C}$
average	$50.6 \times 10^{-6} / ^\circ\text{C}$

Cross-flow direction(α_2)	
Test 1	$49.9 \times 10^{-6} / ^\circ\text{C}$
Test 2	$49.4 \times 10^{-6} / ^\circ\text{C}$
Test 3	$52.7 \times 10^{-6} / ^\circ\text{C}$
average	$50.7 \times 10^{-6} / ^\circ\text{C}$

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

All information supplied by or on behalf of PCL in relation to its products whether in the nature of data, recommendations or otherwise is supported by research and believed reliable, but PCL assumes no liability whatsoever in respect of application, processing or use of afore-mentioned products, or any consequences thereof. No liability whatsoever shall attach to PCL for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or other use of the afore-mentioned information or products by the user.

The user undertakes all liability in respect of the application, processing or use of the afore mentioned information or product, whose properties he shall verify or any consequence thereof.

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

tel: +44 (0)191 378 37 37



fax: +44 (0)191 378 17 17

www.polymer-compounders.com