

NOTOXICOM® B6000

Acrylonitrile Styrene Butadiene/Polycarbonate

NOTOXICOM® B6000 is a UL94 Halogen and aryl phosphate ester free 0.75 mm V0 Flame Retardant rated PC/ABS with superior heat, impact and density performance.

| 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 (1.5mm) | V0 | | UL94 |
| Flammability (0.8 mm) | V0 | | UL94 |

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

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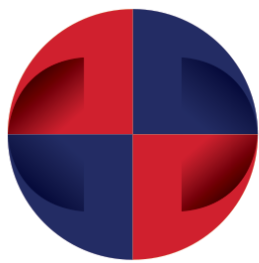
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POLYMER COMPOUNDERS LIMITED

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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/m ² | ISO 180/1A |
| Charpy Notched Impact (RT) | 50 | kJ/m ² | ISO 179/1eA |
| Charpy Unnotched Impact (RT) | NB | kJ/m ² | ISO 179/1eU |
| Rockwell hardness | 120 | R | ISO 2039-2 |

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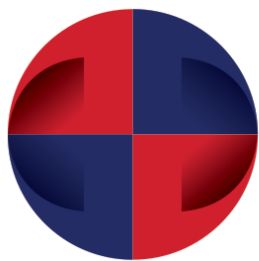
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| Thermal Properties | Typical Value | Unit | Test Method based on |
|------------------------------|---------------|------|------------------------|
| CTE linear | 5.0E-04 | 1/°C | ISO 11359-2 (Parallel) |
| HDT (0.46 MPa) | 130 | °C | ISO 75/Ae |
| 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 | 280-290 | °C |
| Mould Temperature | 70 | °C |
| Injection Velocity | 60.0 | mm/s |
| Drying Time | 2 to 4 | hr |
| Drying Temperature | 100 | °C |

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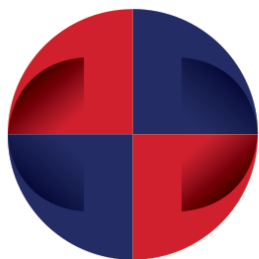
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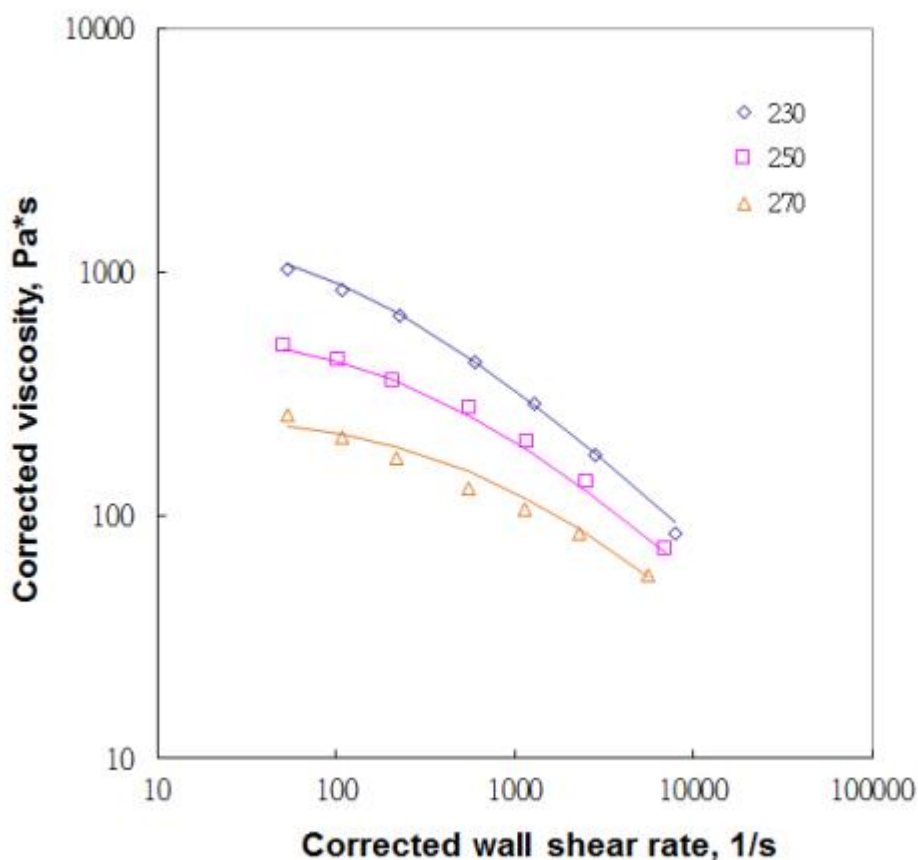
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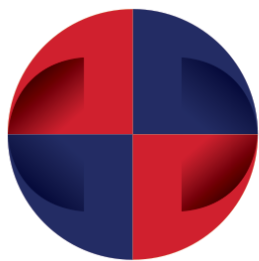
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Coefficient of Thermal Expansion

| | |
|-------------------------|--|
| 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(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 | $50.7 \times 10^{-6} / ^\circ\text{C}$ |

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