

**Product Texts**

LNP COLORCOMP A1000PXB compound is based on unfilled Acrylonitrile Butadiene Styrene (ABS) resin. Added features of this grade include: Healthcare, Biocompatible (ISO10993), Low Extractables, Gamma & EtO Sterilizable, Exceptional Processing.

UL Yellow Card Link [E121562-103956407](https://www.ulprospector.com/121562-103956407)

| <b>Processing/Physical Characteristics</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|--|--------------|-------------------|----------------------|
| <b>ISO Data</b>                            |              |                   |                      |
| Melt flow index, MFI                       | 12           | g/10min           | ISO 1133             |
| Temperature                                | 220          | °C                | -                    |
| Load                                       | 5            | kg                | -                    |
| <b>ASTM Data</b>                           |              |                   |                      |
| Melt Flow Index, MFI                       | 11.7         | g/10min           | ASTM D 1238          |
| Temperature                                | 230          | °C                | -                    |
| Load                                       | 3.8          | kg                | -                    |
| <b>Mechanical properties</b>               |              |                   |                      |
| <b>ISO Data</b>                            |              |                   |                      |
| Tensile Modulus                            | 2450         | MPa               | ISO 527              |
| Yield stress                               | 40           | MPa               | ISO 527              |
| Yield strain                               | 2            | %                 | ISO 527              |
| Stress at break                            | 35           | MPa               | ISO 527              |
| Strain at break                            | 35           | %                 | ISO 527              |
| Flexural modulus                           | 2500         | MPa               | ISO 178              |
| Charpy notched impact strength, +23°C, 3mm | 23           | kJ/m <sup>2</sup> | ISO 179/1eA          |
| Izod notched impact strength, +23°C, 4mm   | 16           | kJ/m <sup>2</sup> | ISO 180/1A           |
| Izod notched impact strength, -30°C, 4mm   | 7            | kJ/m <sup>2</sup> | ISO 180/1A           |
| <b>ASTM Data</b>                           |              |                   |                      |
| Tensile Modulus                            | 2480         | MPa               | ASTM D 638           |
| Tensile Strength at Yield                  | 46           | MPa               | ASTM D 638           |
| Tensile Strength at Break                  | 35           | MPa               | ASTM D 638           |
| Elongation at Yield                        | 2            | %                 | ASTM D 638           |
| Elongation at Break                        | 18           | %                 | ASTM D 638           |
| Flexural Modulus                           | 2620         | MPa               | ASTM D 790           |
| Izod Impact notched, 1/8 in                | 240          | J/m               | ASTM D 256           |
| Izod Impact notched, Low-Temperature       | 80           | J/m               | ASTM D 256           |
| Temperature                                | -30          | °C                | -                    |
| <b>Thermal properties</b>                  |              |                   |                      |
| <b>ISO Data</b>                            |              |                   |                      |
| Temp. of deflection under load, 1.80 MPa   | 80           | °C                | ISO 75-1/-2          |
| Vicat softening temperature, B             | 98           | °C                | ISO 306              |
| Vicat softening temperature, 120°C/h 50N   | 100          | °C                | ISO 306              |
| Burning behav. at 1.5 mm nom. thickn.      | HB           | class             | IEC 60695-11-10      |
| Thickness tested                           | 1.5          | mm                | -                    |
| Glow Wire Flammability Index (GWFI)        | 650          | °C                | IEC 60695-2-12       |
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| Glow Wire Flammability Index (GWFI)        | 650          | °C                | IEC 60695-2-12       |
| Glow Wire Ignition Temperature (GWIT)      | 700          | °C                | IEC 60695-2-13       |
| GWIT - thickness tested (1)                | 1            | mm                | -                    |
| Glow Wire Ignition Temperature (GWIT)      | 700          | °C                | IEC 60695-2-13       |
| GWIT - thickness tested (2)                | 2            | mm                | -                    |
| Glow Wire Ignition Temperature (GWIT)      | 700          | °C                | IEC 60695-2-13       |
| GWIT - thickness tested (3)                | 3            | mm                | -                    |
| <b>ASTM Data</b>                           |              |                   |                      |
| DTUL @ 66 psi                              | 93           | °C                | ASTM D 648           |
| DTUL @ 264 psi                             | 77           | °C                | ASTM D 648           |
| Vicat Temperature                          | 98           | °C                | ASTM D 1525          |

**LNP™ COLORCOMP™ Compound A1000PXB**

ABS

Saudi Basic Industries Corporation (SABIC)

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Density                 | <b>1060</b>  | kg/m <sup>3</sup> | ISO 1183             |
| Density                 | <b>1040</b>  | kg/m <sup>3</sup> | ASTM D 792           |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b>     | <b>Unit</b> | <b>Test Standard</b> |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature                           | <b>80 - 90</b>   | °C          | -                    |
| Pre-drying - Time                                  | <b>2 - 4</b>     | h           | -                    |
| Processing humidity                                | <b>≤0.1</b>      | %           | -                    |
| Melt temperature                                   | <b>205 - 245</b> | °C          | -                    |
| Mold temperature                                   | <b>50 - 70</b>   | °C          | -                    |
| Zone 1   | <b>190 - 200</b> | °C          | -                    |
| Zone 2   | <b>200 - 210</b> | °C          | -                    |
| Zone 3   | <b>205 - 225</b> | °C          | -                    |
| Screw speed  | <b>30 - 60</b>   | rpm         | -                    |
| Back pressure                                      | <b>0.3 - 0.7</b> | MPa         | -                    |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific