

# LNP™ THERMOCOMP™ PX92248 compound

Polyamide 6  
SABIC Innovative Plastics

Message:

LNP THERMOCOMP PX92248 is a compound based on Nylon 6 resin containing Proprietary Filler(s).  
Also known as: LNP\* THERMOCOMP\* Compound PDX-P-92248  
Product reorder name: PX92248

| General Information                                              |                   |                   |             |
|------------------------------------------------------------------|-------------------|-------------------|-------------|
| Filler / Reinforcement                                           | Proprietary       |                   |             |
| Processing Method                                                | Injection Molding |                   |             |
| Physical                                                         | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                                 | 1.34              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (24 hr)                                 | 0.20              | %                 | ASTM D955   |
| Mechanical                                                       | Nominal Value     | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                                     | 8850              | MPa               | ASTM D638   |
| Tensile Strength                                                 |                   |                   | ASTM D638   |
| Break                                                            | 108               | MPa               |             |
| Break <sup>2</sup>                                               | 108               | MPa               |             |
| Tensile Elongation                                               |                   |                   | ASTM D638   |
| Break                                                            | 2.5               | %                 |             |
| Break <sup>3</sup>                                               | 2.5               | %                 |             |
| Flexural Modulus                                                 |                   |                   | ASTM D790   |
| 50.0 mm Span <sup>4</sup>                                        | 7230              | MPa               |             |
| --                                                               | 7230              | MPa               |             |
| Flexural Strength                                                |                   |                   | ASTM D790   |
| --                                                               | 179               | MPa               |             |
| Break, 50.0 mm Span <sup>5</sup>                                 | 179               | MPa               |             |
| Impact                                                           | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                                       | 140               | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)                                     | 840               | J/m               | ASTM D4812  |
| Thermal                                                          | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm) | 196               | °C                | ASTM D648   |
| Injection                                                        | Nominal Value     | Unit              |             |
| Drying Temperature                                               | 82.2              | °C                |             |
| Drying Time                                                      | 4.0               | hr                |             |
| Suggested Max Moisture                                           | 0.15 to 0.25      | %                 |             |
| Rear Temperature                                                 | 249 to 260        | °C                |             |
| Middle Temperature                                               | 266 to 277        | °C                |             |
| Front Temperature                                                | 277 to 288        | °C                |             |

|                        |                |     |
|------------------------|----------------|-----|
| Processing (Melt) Temp | 266 to 277     | °C  |
| Mold Temperature       | 82.2 to 93.3   | °C  |
| Back Pressure          | 0.344 to 0.689 | MPa |
| Screw Speed            | 30 to 60       | rpm |

| NOTE |                    |  |
|------|--------------------|--|
| 1.   | 50 mm/min          |  |
| 2.   | Type I, 5.0 mm/min |  |
| 3.   | Type I, 5.0 mm/min |  |
| 4.   | 1.3 mm/min         |  |
| 5.   | 1.3 mm/min         |  |

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