

# LNP™ THERMOCOMP™ 9X07435X compound

Thermoplastic

SABIC Innovative Plastics

## Message:

LNP THERMOCOMP 9X07435X is a compound based on Miscellaneous resin containing Proprietary Filler(s). Added feature of this grade is: Plateable.

Also known as: LNP\* THERMOCOMP\* Compound 9X07435X

Product reorder name: 9X07435X

| General Information                    |                   |                   |             |
|----------------------------------------|-------------------|-------------------|-------------|
| Filler / Reinforcement                 | Proprietary       |                   |             |
| Features                               | Plateable         |                   |             |
| Processing Method                      | Injection Molding |                   |             |
| Physical                               | Nominal Value     | Unit              | Test Method |
| Density                                | 1.25              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                      |                   |                   | ASTM D955   |
| Flow : 24 hr                           | 0.90 to 1.1       | %                 |             |
| Across Flow : 24 hr                    | 1.1 to 1.3        | %                 |             |
| Water Absorption (24 hr, 50% RH)       | 0.098             | %                 | ASTM D570   |
| Mechanical                             | Nominal Value     | Unit              | Test Method |
| Tensile Modulus                        |                   |                   |             |
| -- <sup>1</sup>                        | 5460              | MPa               | ASTM D638   |
| --                                     | 4820              | MPa               | ISO 527-2/1 |
| Tensile Strength                       |                   |                   |             |
| Yield <sup>2</sup>                     | 60.1              | MPa               | ASTM D638   |
| Yield                                  | 51.2              | MPa               | ISO 527-2/5 |
| Break <sup>3</sup>                     | 59.9              | MPa               | ASTM D638   |
| Break                                  | 51.0              | MPa               | ISO 527-2/5 |
| Tensile Elongation                     |                   |                   |             |
| Yield <sup>4</sup>                     | 1.9               | %                 | ASTM D638   |
| Yield                                  | 1.6               | %                 | ISO 527-2/5 |
| Break <sup>5</sup>                     | 1.9               | %                 | ASTM D638   |
| Break                                  | 1.6               | %                 | ISO 527-2/5 |
| Flexural Modulus                       |                   |                   |             |
| 50.0 mm Span <sup>6</sup>              | 5350              | MPa               | ASTM D790   |
| -- <sup>7</sup>                        | 5010              | MPa               | ISO 178     |
| Flexural Stress                        |                   |                   |             |
| --                                     | 93.5              | MPa               | ISO 178     |
| Yield, 50.0 mm Span <sup>8</sup>       | 95.3              | MPa               | ASTM D790   |
| Break, 50.0 mm Span <sup>9</sup>       | 95.8              | MPa               | ASTM D790   |
| Flexural Strain at Break <sup>10</sup> | 2.2               | %                 | ISO 178     |
| Impact                                 | Nominal Value     | Unit              | Test Method |

|                                                 |                    |                   |             |
|-------------------------------------------------|--------------------|-------------------|-------------|
| Notched Izod Impact                             |                    |                   |             |
| 23°C                                            | 35                 | J/m               | ASTM D256   |
| 23°C <sup>11</sup>                              | 3.3                | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact                           |                    |                   |             |
| 23°C                                            | 270                | J/m               | ASTM D4812  |
| 23°C <sup>12</sup>                              | 19                 | kJ/m <sup>2</sup> | ISO 180/1U  |
| Thermal                                         | Nominal Value      | Unit              | Test Method |
| Deflection Temperature Under Load               |                    |                   |             |
| 1.8 MPa, Unannealed, 3.20 mm                    | 101                | °C                | ASTM D648   |
| 1.8 MPa, Unannealed, 64.0 mm Span <sup>13</sup> | 111                | °C                | ISO 75-2/Af |
| Electrical                                      | Nominal Value      |                   | Test Method |
| Dielectric Constant (1.00 GHz)                  | 2.90               |                   | ASTM D150   |
| Dissipation Factor (1.00 GHz)                   | 4.7E-3             |                   | ASTM D150   |
| Injection                                       | Nominal Value      | Unit              |             |
| Drying Temperature                              | 93.3               | °C                |             |
| Drying Time                                     | 4.0                | hr                |             |
| Rear Temperature                                | 299 to 310         | °C                |             |
| Middle Temperature                              | 299 to 310         | °C                |             |
| Front Temperature                               | 299 to 310         | °C                |             |
| Nozzle Temperature                              | 299 to 310         | °C                |             |
| Processing (Melt) Temp                          | 299 to 310         | °C                |             |
| Mold Temperature                                | 107 to 121         | °C                |             |
| Back Pressure                                   | 0.345 to 0.689     | MPa               |             |
| NOTE                                            |                    |                   |             |
| 1.                                              | 50 mm/min          |                   |             |
| 2.                                              | Type I, 5.0 mm/min |                   |             |
| 3.                                              | Type I, 5.0 mm/min |                   |             |
| 4.                                              | Type I, 5.0 mm/min |                   |             |
| 5.                                              | Type I, 5.0 mm/min |                   |             |
| 6.                                              | 1.3 mm/min         |                   |             |
| 7.                                              | 2.0 mm/min         |                   |             |
| 8.                                              | 1.3 mm/min         |                   |             |
| 9.                                              | 1.3 mm/min         |                   |             |
| 10.                                             | 2 mm/min           |                   |             |
| 11.                                             | 80*10*4            |                   |             |
| 12.                                             | 80*10*4            |                   |             |
| 13.                                             | 80*10*4 mm         |                   |             |

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