

# LNP Starflam\* PM-3240 Z222

## Polyamide 6

## SABIC Innovative Plastics Asia Pacific

| General                                            |                     |                   |                   |
|----------------------------------------------------|---------------------|-------------------|-------------------|
| Filler / Reinforcement                             | • Mineral Filler    |                   |                   |
| Features                                           | • Bromine Free      | • Chlorine Free   | • Flame Retardant |
| Forms                                              | • Pellets           |                   |                   |
| Processing Method                                  | • Injection Molding |                   |                   |
| Physical                                           | Nominal Value       | Unit              | Test Method       |
| Density                                            | 1.33                | g/cm <sup>3</sup> | ISO 1183          |
| Molding Shrinkage - Flow (24 hr)                   | 0.50 to 0.80        | %                 | ISO 294-4         |
| Mechanical                                         | Nominal Value       | Unit              | Test Method       |
| Tensile Modulus                                    | 6400                | MPa               | ISO 527-2         |
| Tensile Stress (Break)                             | 90.0                | MPa               | ISO 527-2         |
| Tensile Strain (Break)                             | 3.0                 | %                 | ISO 527-2         |
| Flexural Modulus                                   | 6000                | MPa               | ISO 178           |
| Flexural Strength                                  | 130                 | MPa               | ISO 178           |
| Impact                                             | Nominal Value       | Unit              | Test Method       |
| Notched Izod Impact Strength                       | 5.00                | kJ/m <sup>2</sup> | ISO 180           |
| Unnotched Izod Impact Strength                     | 45.0                | kJ/m <sup>2</sup> | ISO 180           |
| Thermal                                            | Nominal Value       | Unit              | Test Method       |
| Heat Deflection Temperature<br>1.8 MPa, Unannealed | 100                 | °C                | ISO 75-2/A        |
| Flammability                                       | Nominal Value       | Unit              | Test Method       |
| Flame Rating - UL (1.60 mm)                        | V-2                 |                   | UL 94             |
| Injection                                          | Nominal Value       | Unit              |                   |
| Drying Temperature                                 | 82.2                | °C                |                   |
| Drying Time                                        | 4.0                 | hr                |                   |
| Suggested Max Moisture                             | 0.020               | %                 |                   |
| Processing (Melt) Temp                             | 252 to 266          | °C                |                   |
| Mold Temperature                                   | 54.4 to 93.3        | °C                |                   |
| Back Pressure                                      | 0.172 to 0.345      | MPa               |                   |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.