

# NEFTEKHIM PS 409M

General Purpose Polystyrene

Nizhnekamskneftekhim Inc.

## Message:

High-strength and high-cycle general-purpose polystyrene grade with higher content of mineral oil as plasticizer. Produced by initiated mass polymerization method. Application: manufacturing of products by pressure molding. Recommended for manufacturing of thin-walled food containers, medical ware, stationery, house ware, toys, etc.

| General Information                      |                                 |          |             |
|--|---------------------------------|----------|-------------|
| Additive                                 | Plasticizer 2                   |          |             |
| Features                                 | High Strength                   |          |             |
| Uses                                     | Food Containers                 |          |             |
|  | General Purpose                 |          |             |
|  | Household Goods                 |          |             |
|  | Medical/Healthcare Applications |          |             |
|  | Stationary Supplies             |          |             |
|  | Toys                            |          |             |
|  |                                 |          |             |
|  |                                 |          |             |
|  |                                 |          |             |
|  |                                 |          |             |
| Forms                                    | Pellets                         |          |             |
| Processing Method                        | Injection Molding               |          |             |
| Physical                                 | Nominal Value                   | Unit     | Test Method |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 7.0 to 11                       | g/10 min | ASTM D1238  |
| Mechanical                               | Nominal Value                   | Unit     | Test Method |
| Tensile Strength (Break)                 | 37.0                            | MPa      | ASTM D638   |
| Flexural Strength                        | 69.0                            | MPa      | ASTM D790   |
| Thermal                                  | Nominal Value                   | Unit     | Test Method |
| Vicat Softening Temperature              | 85.0                            | °C       | ASTM D1525  |
| Additional Information                   | Nominal Value                   | Unit     |             |
| Residual Styrene <sup>1</sup>            | 0.050                           | %        |             |
| NOTE                                     |                                 |          |             |
| 1.                                       | TU 2214-126-05766801            |          |             |

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