

# NEFTEKHIM PS 402M

General Purpose Polystyrene

Nizhnekamskneftekhim Inc.

Message:

High-strength and good-moldability general-purpose polystyrene grade with mineral oil as plasticizer, combined strength and high heat resistance. Produced by initiated mass polymerization method. Application: manufacturing of extrusion and thick polystyrene sheet foam for illuminating ware. Also recommended for manufacturing of large-size parts of electrical home appliances (clear dust-protection parts, etc.) and stationery.

| General Information |                       |
|---------------------|-----------------------|
| Additive            | Plasticizer 2         |
| Features            | Good Moldability      |
|                     | High Heat Resistance  |
|                     | High Strength         |
| Uses                | Appliances            |
|                     | General Purpose       |
|                     | Lighting Applications |
|                     | Stationary Supplies   |
| Forms               | Pellets               |
| Processing Method   | Foam Extrusion        |
|                     | Sheet Extrusion       |

| Physical                                 | Nominal Value | Unit     | Test Method |
|--|---------------|----------|-------------|
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 1.5 to 3.5    | g/10 min | ASTM D1238  |
| Mechanical                               | Nominal Value | Unit     | Test Method |
| Tensile Strength (Break)                 | 42.0          | MPa      | ASTM D638   |
| Flexural Strength                        | 90.0          | MPa      | ASTM D790   |
| Thermal                                  | Nominal Value | Unit     | Test Method |
| Vicat Softening Temperature              | 90.0          | °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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