# Osterlene® PPH-20-.9-NA

Polypropylene Homopolymer

Osterman & Company

## Message:

PPH-20-.9-NA is a reactor-synthesized, nucleated polypropylene homopolymer with antistat for use in injection molding applications.
This resin exhibits good flow characteristics, good mold release properties, excellent rigidity and hardness, fast set-up times, and excellent organoleptics.
Typical applications include rigid thin-wall containers, closures, and cutlery.

| General Information | | | |
|---|---|---|---|
| Additive | Antistatic<br>Nucleating Agent | | |
| Features | Antistatic<br>Good Flow<br>Good Mold Release<br>Good Organoleptic Properties<br>Homopolymer<br>Medium Hardness<br>Medium Rigidity<br>Nucleated | | |
| Uses | Closures<br>Disposable Tableware<br>Thin-walled Containers | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 20 | g/10 min | ASTM D1238 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 108 | | ASTM D785 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Yield) | 25.5 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 20 | % | ASTM D638 |
| Flexural Modulus | 896 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C) | 48 | J/m | ASTM D256 |
| Gardner Impact | 1.39 | J | ASTM D5420 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 106 | °C | ASTM D648 |

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 221 | °C |
| Middle Temperature | 232 | °C |
| Front Temperature | 243 | °C |
| Nozzle Temperature | 243 | °C |



## Recommended distributors for this material

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