# KPOL-PP K-PPH 2.1 S

Polypropylene Homopolymer

KPOL Chem Co.

## Message:

Polypropylene Homopolymer
Characteristics
The KPOL® is specially developed for Production of Extrusion, Blow and possibly injection molding.
This product exhibits excellent processability, good melt stability, good stiffness/impact strength balance and low odor and flavor transfer. It is a controlled rheology grade.
Applications
The KPOL® is a low melt flow rate homopolymer used for general purpose and multipurpose. Extrusion-Compression Molding of caps for soft drink and water bottles.

| General Information | |
|---|---|
| Additive | Nucleating Agent |
| | Slip |
| Features | Controlled Rheology |
| | General Purpose |
| | Good Impact Resistance |
| | Good Processability |
| | Good Stiffness |
| | Homopolymer |
| | Low Flow |
| | Low Odor Transfer |
| | Low Taste Transfer |
| | Nucleated |
| | Slip |
| Uses | Caps |
| Agency Ratings | FDA 21 CFR 177.1520 |
| Processing Method | Blow Molding |
| | Extrusion |
| | Fiber (Spinning) Extrusion |
| | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.903 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 2.1 | g/10 min | ASTM D1238 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 94 | | ASTM D785 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Tensile Strength [1] (Yield) | 36.0 | MPa | ASTM D638 |
| Tensile Elongation [2] (Break) | 8.5 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | 1550 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C) | 41 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 106 | °C | ASTM D648 |
| **NOTE** | | | |
| 1. | Type IV, 50 mm/min | | |
| 2. | Type IV, 50 mm/min | | |



## Recommended distributors for this material

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