# KPOL-PP K-PPH 1.80

Polypropylene Homopolymer

KPOL Chem Co.

## Message:

Polypropylene Homopolymer
Characteristics
The KPOL® is specially developed for Production of Raffia (Flat Yarn) by Flat Die Extrusion (Water Quenched or Chill Roll) .
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 grade for raffia extrusion and fiber extrusion. This resin is designed for blow moulding and extrusion applications : Extrusion, Blow molding and possibly for injection molding.

| General Information | |
|---|---|
| Additive | Antioxidant<br>Processing Aid |
| Features | Antioxidant<br>Controlled Rheology<br>General Purpose<br>Good Impact Resistance<br>Good Processability<br>Good Stiffness<br>Homopolymer<br>Low Flow<br>Low Odor Transfer<br>Low Taste Transfer |
| Uses | BCF Yarn<br>Fibers |
| Agency Ratings | FDA 21 CFR 177.1520 |
| Processing Method | Blow Molding<br>Extrusion<br>Fiber (Spinning) Extrusion<br>Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.905 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.8 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [1] (Yield) | 32.0 | MPa | ASTM D638 |

| | | | |
|---|---|---|---|
| Tensile Elongation [2] (Break) | 13 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | 1350 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | 46 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 88.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 152 | °C | ASTM D1525 [3] |
| **NOTE** | | | |
| 1. | Type IV, 50 mm/min | | |
| 2. | Type IV, 50 mm/min | | |
| 3. | Rate A (50°C/h), Loading 1 (10 N) | | |



## Recommended distributors for this material

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