

KPOL-PP K-PPH 12.0

Polypropylene Homopolymer

KPOL Chem Co.

Message:

Polypropylene Homopolymer

Applications

The KPOL® is a homopolymer used for general purpose injection moulding applications

It is suitable for production of complex articles with long flow paths and thin walls. Typical applications are closures and garden furniture.

Characteristics

The KPOL® is specially developed for producing rigid injection molded articles for general purpose applications. It gives consistent processability and high gloss at the products. It is a controlled rheology grade.

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| Additive | Antioxidant | | |
| Features | Antioxidant | | |
| | BPA Free | | |
| | Controlled Rheology | | |
| | Food Contact Acceptable | | |
| | Good Processability | | |
| | High Gloss | | |
| | Homopolymer | | |
| Uses | Closures | | |
| | Furniture | | |
| | General Purpose | | |
| | Thin-walled Parts | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.903 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 70 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield) | 35.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 8.5 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | 2000 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 28 | J/m | ASTM D256 |

| Thermal | Nominal Value | Unit | Test Method |
|--|---------------|------|-------------------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 101 | °C | ASTM D648 |
| Vicat Softening Temperature | 148 | °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)

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