

FHR Polypropylene P4C5N-046

Polypropylene Homopolymer

Flint Hills Resources, LP

Message:

FHR Polypropylene P4C5N-046 is a polypropylene homopolymer (PP Homopoly) product. It can be processed by injection molding and is available in North America. The application areas of FHR Polypropylene P4C5N-046 include medical/health care, tools, containers and food contact applications. Features include:
flame retardant/rated flame
nucleation
Good processability
Homopolymer

| General Information | | | |
|---|-----------------------------|-------------------|-------------|
| UL YellowCard | E336707-100613158 | | |
| Additive | Nucleating agent | | |
| Features | Nucleated | | |
| | Homopolymer | | |
| | Workability, good | | |
| | No kinetic components | | |
| Uses | Container | | |
| | Mold/Mold/Tool | | |
| Agency Ratings | DMF not rated | | |
| | FDA 21 CFR 177.1520(c) 1.1a | | |
| | ISO 10993 Part 5 | | |
| | USP Class VI | | |
| RoHS Compliance | Contact manufacturer | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | ASTM D1505 |
| 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) | 110 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 39.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 8.0 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | 1590 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |

| Notched Izod Impact (23°C) | 30 | J/m | ASTM D256 |
|--|---------------|------|-------------|
| Dart Drop Impact (23°C) | 3.00 | J | ASTM D5420 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 108 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |
| Additional Information | | | |

Notice regarding medical applications: This Flint Hills product meets certain requirements for use in medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that this Flint Hills product is safe, lawful and technically suitable for the intended use. Flint Hills encourages its customers to review their application with a Flint Hills technical representative to ensure that this product is not used in ways for which it was not intended or tested. Flint Hills makes no warranties (express or implied), promises or guarantees concerning the suitability of this product for use in any given medical application. Not intended for use in the manufacture of any form of implanted medical or surgical device.

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