

LyondellBasell Pro-fax PF531 Polypropylene Homopolymer, Radiation Resistant

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Primary Processing Method: Injection Molding
Key Features: high melt flow, radiation-resistant polypropylene homopolymer resin, excellent retention of physical properties and color after radiation sterilization, easily processed
Applications: radiation-sterilizable medical and laboratory devices
Passed USP Class VI testing. All ingredients meet TSCA (US) and DSL (Canada).
Description: Pro-fax PF531 radiation-resistant, high melt flow, controlled rheology polypropylene homopolymer resin is designed for injection molding. This resin resists yellowing and embrittlement after 5 Mrads of gamma radiation. However, since performance and appearance after radiation sterilization can be sensitive to design and processing choices, the users should verify performance in their application. It passed USP Class VI testing. All ingredients meet the chemical registration requirements of TSCA and DSL.
Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Pro-fax-PF531-Polypropylene-Homopolymer-Radiation-Resistant.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Density | 0.900 g/cc | 0.0325 lb/in ³ | ASTM D792B |
| Melt Flow | 27 g/10 min @Load 2.16 kg, Temperature 230 °C | 27 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|----------------|--------------------------------------|
| Hardness, Rockwell R | 75 | 75 | ASTM D785A |
| Tensile Strength, Yield | 27.0 MPa | 3920 psi | ASTM D638 |
| Elongation at Yield | 15 % | 15 % | ASTM D638 |
| Flexural Modulus | 0.810 GPa | 117 ksi | 1% secant at 0.05 in/min; ASTM D790A |
| Izod Impact, Notched | 0.320 J/cm | 0.599 ft-lb/in | ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 77.0 °C | 171 °F | ASTM D648 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China